

Fig.2A

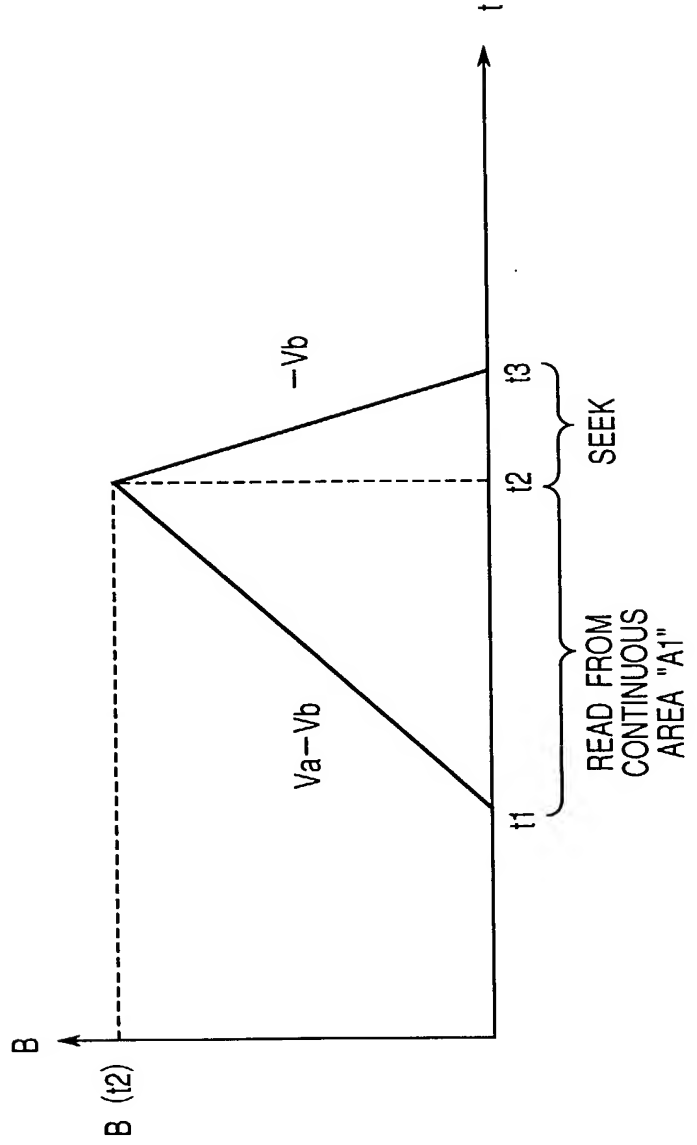
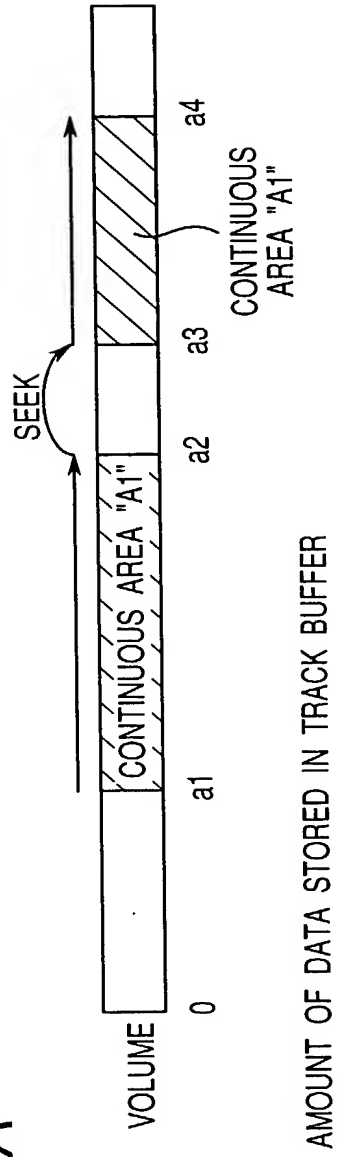
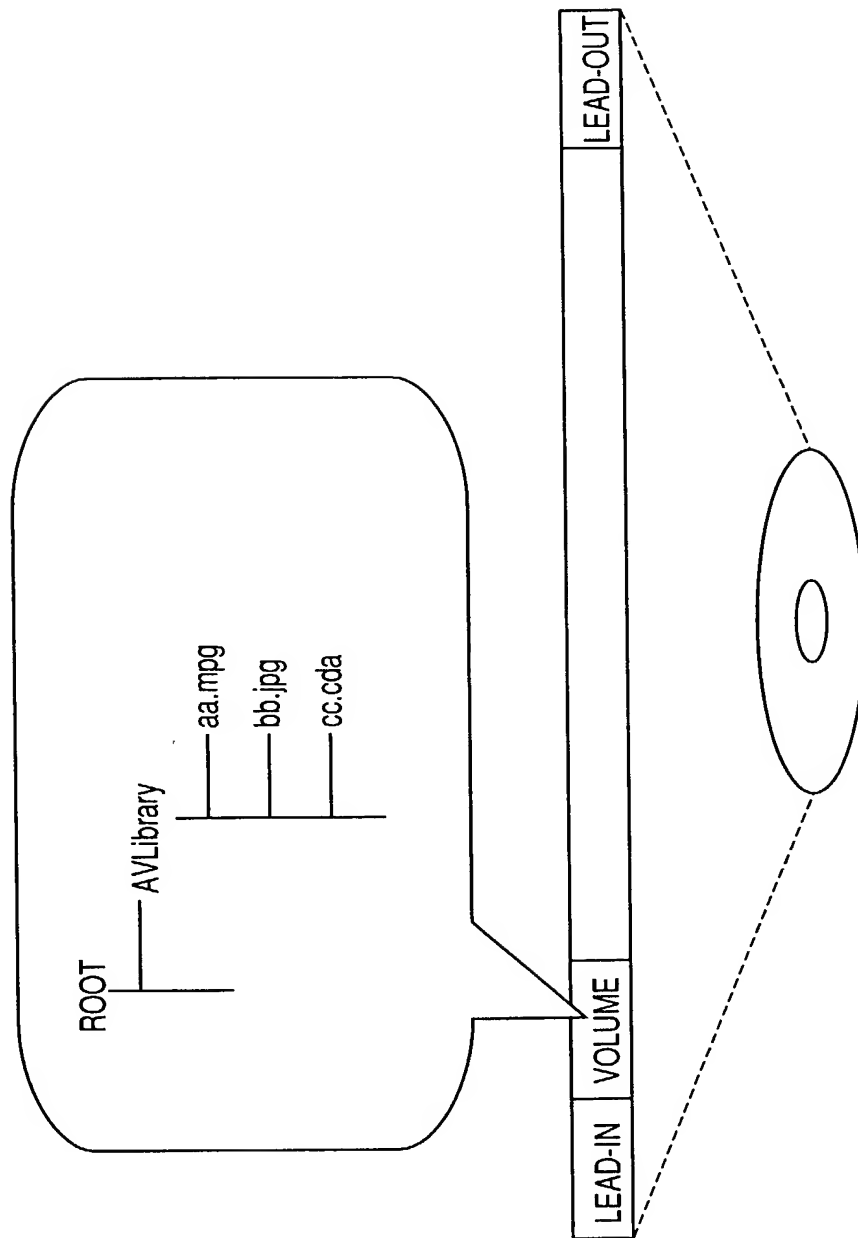


Fig.2B

Fig.3



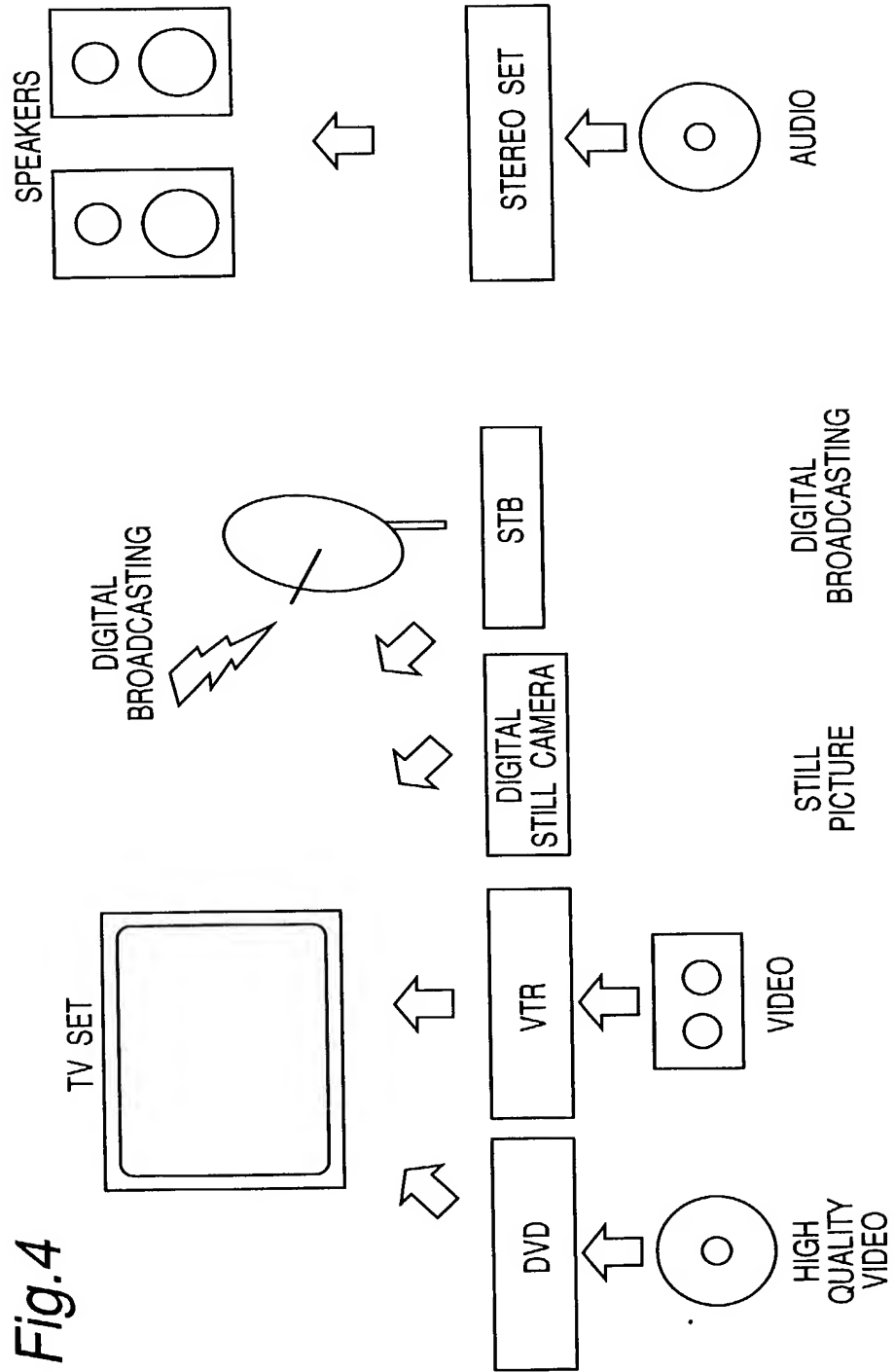


Fig. 5

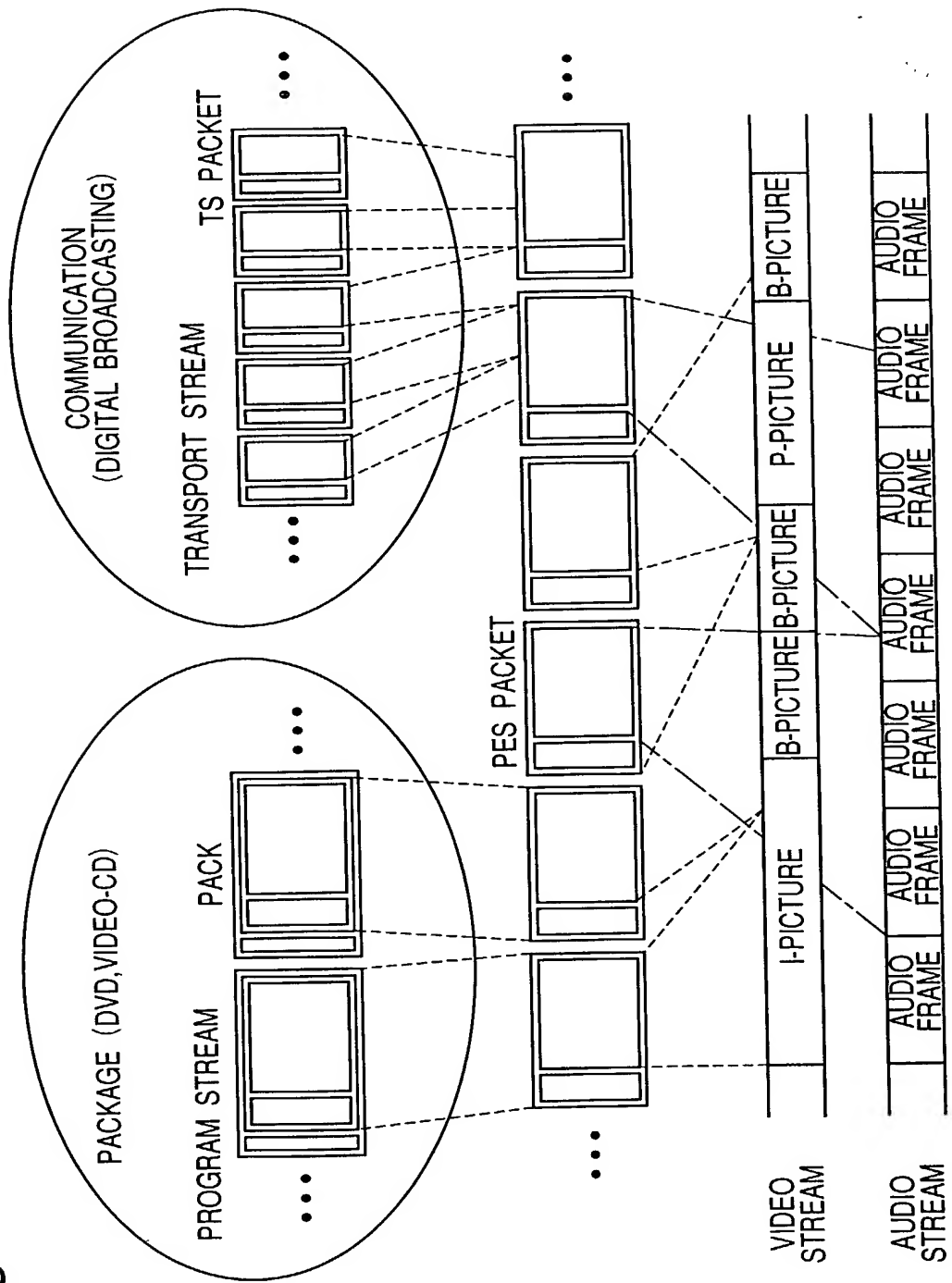


Fig.6

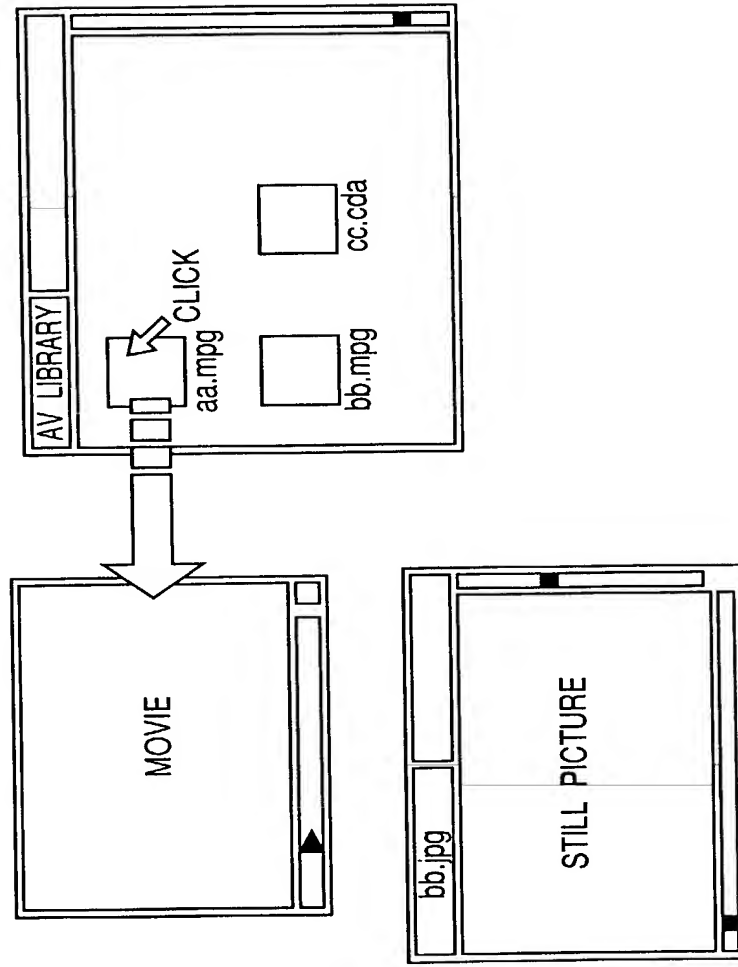


Fig. 7

The diagram illustrates a digital video recording system. At the top, two broadcast sources are shown: 'ANALOG BROADCASTING' (represented by a lightning bolt and a multi-antenna tower) and 'DIGITAL BROADCASTING' (represented by a lightning bolt and a single-antenna tower). Arrows from these sources point to a 'TV SET' (a large rectangle with two circular speakers on either side). From the TV SET, an arrow points to a 'DVD RECORDER' (a rectangle). From the DVD RECORDER, an arrow points to a central circle representing a disc. From this disc, three arrows point to output devices: 'STEREO SET' (a rectangle), 'HIGH QUALITY VIDEO (DVD Video)' (a rectangle), and 'DIGITAL STILL CAMERA' (a rectangle). Finally, an arrow from the disc points to a 'STILL PICTURE' (a rectangle).

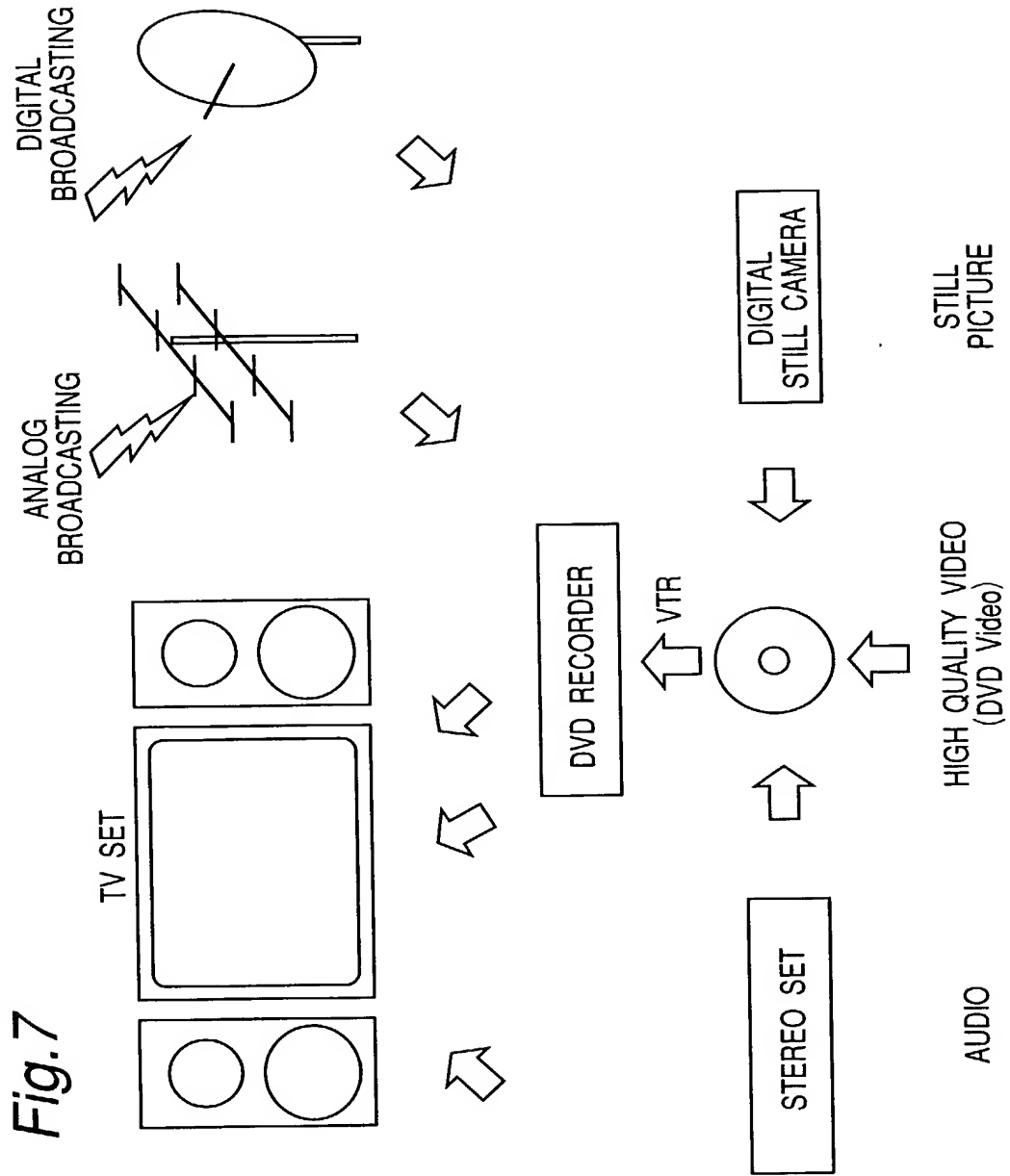


Fig.8

| <u>PROGRAM</u> | <u>RECORDING DATE & TIME</u> |
|------------------------------|----------------------------------|
| 1) The Foreign Movie Theater | 99.9.20 pm9 : 00- |
| 2) Morning Drama Series | 99.9.22 am8 : 30- |
| 3) World Cup Finals | 99.6.10 am2 : 00- |
| 4) Beethoven | 96.4.1 |

Fig.9A

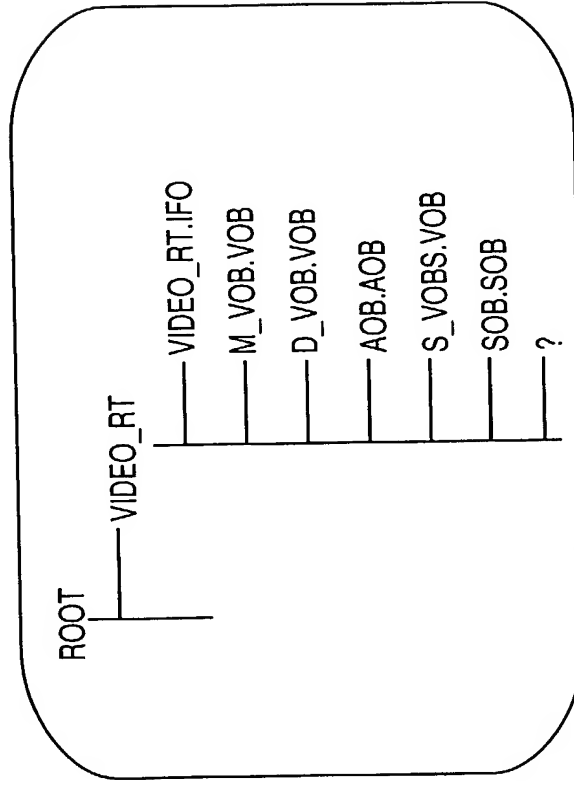


Fig.9B

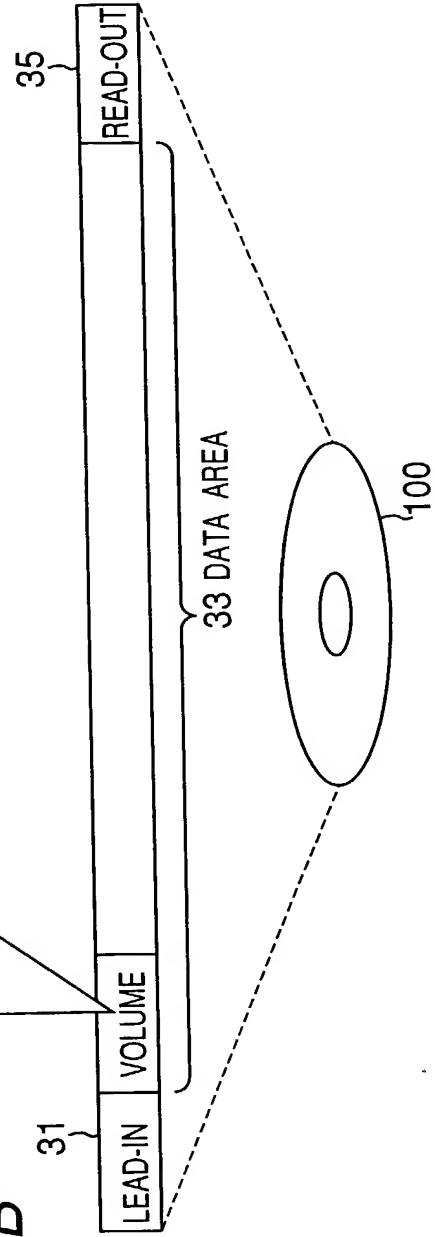


Fig.10

VIDEO_RT.IFO FILE

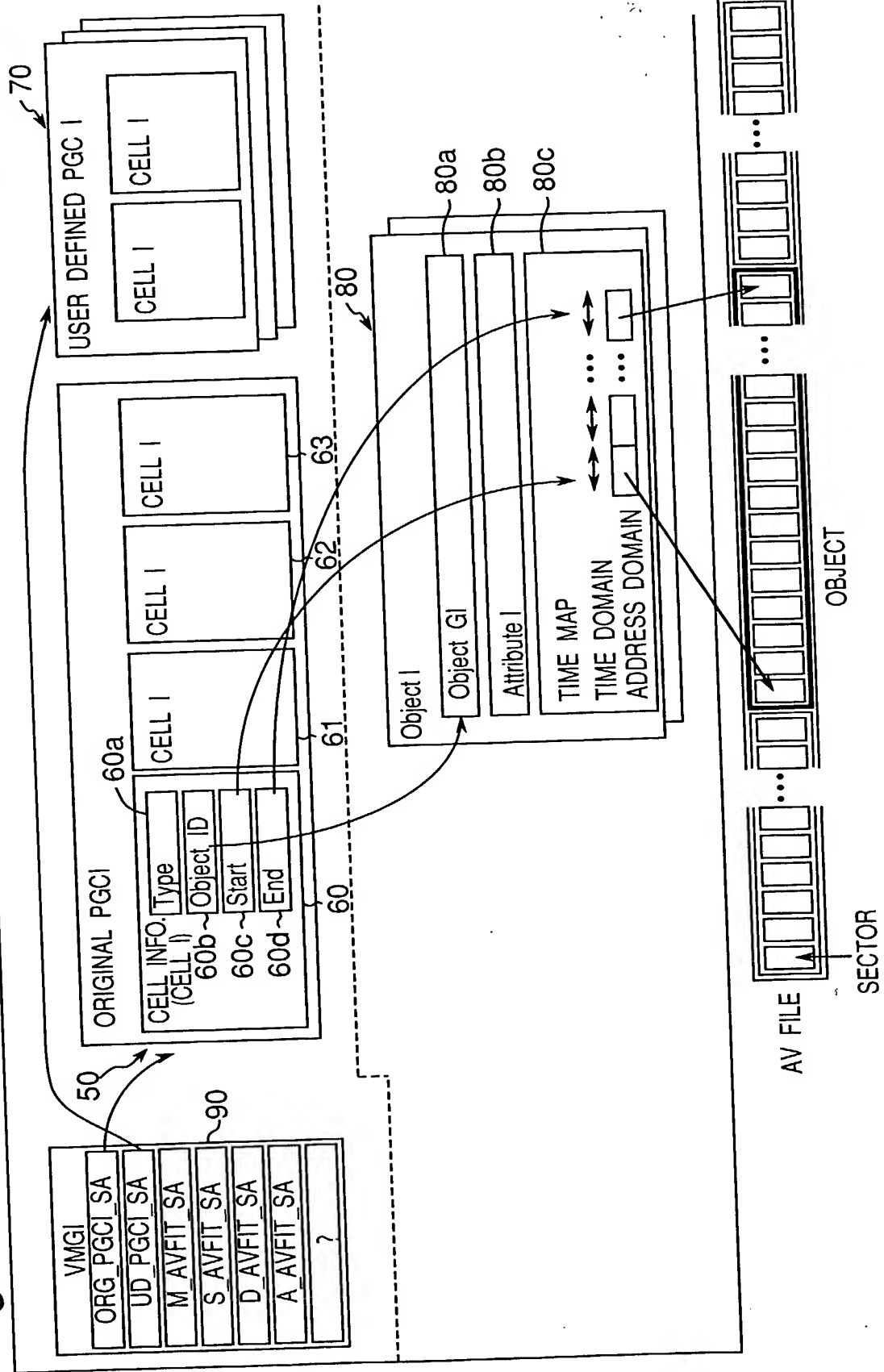
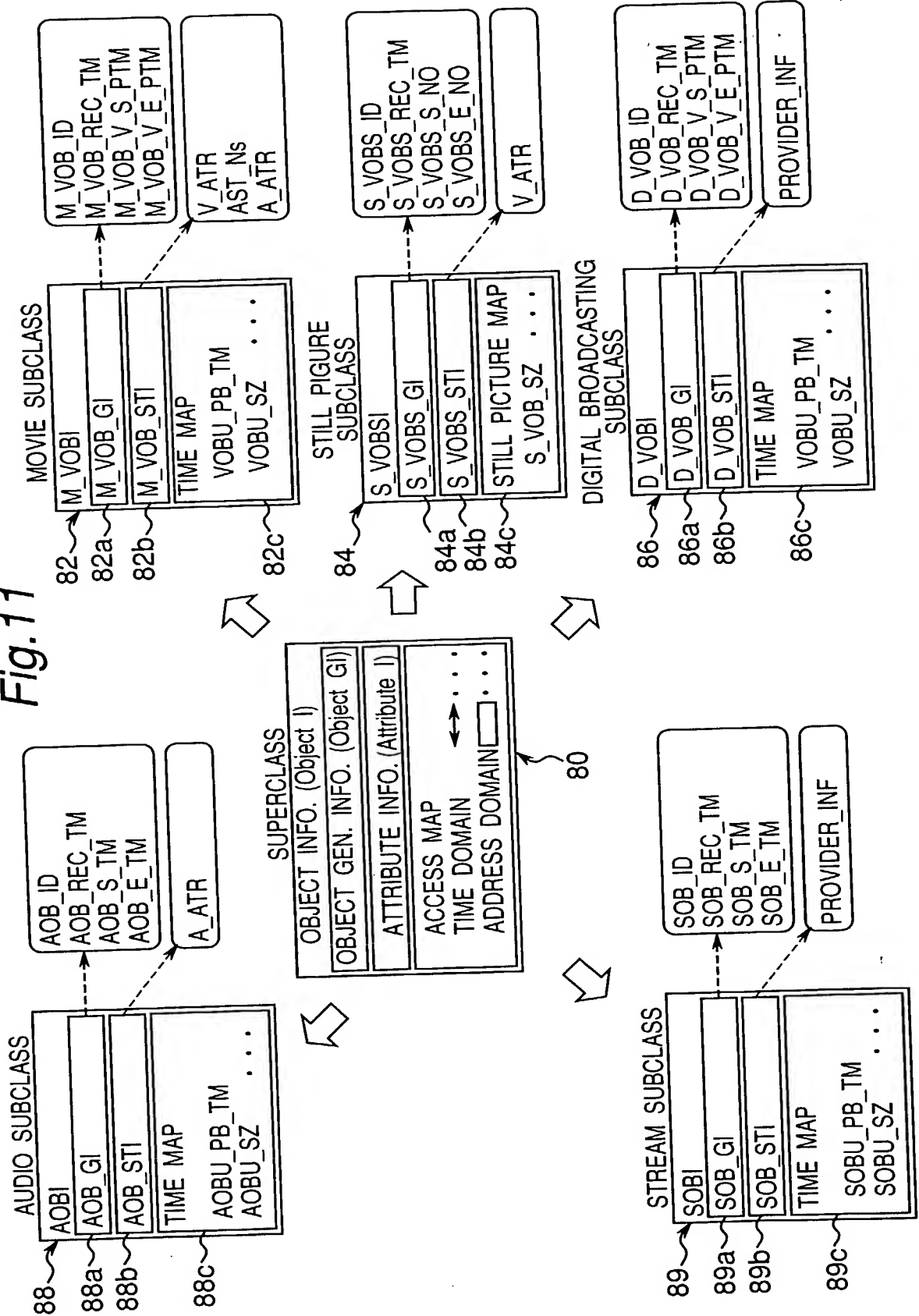
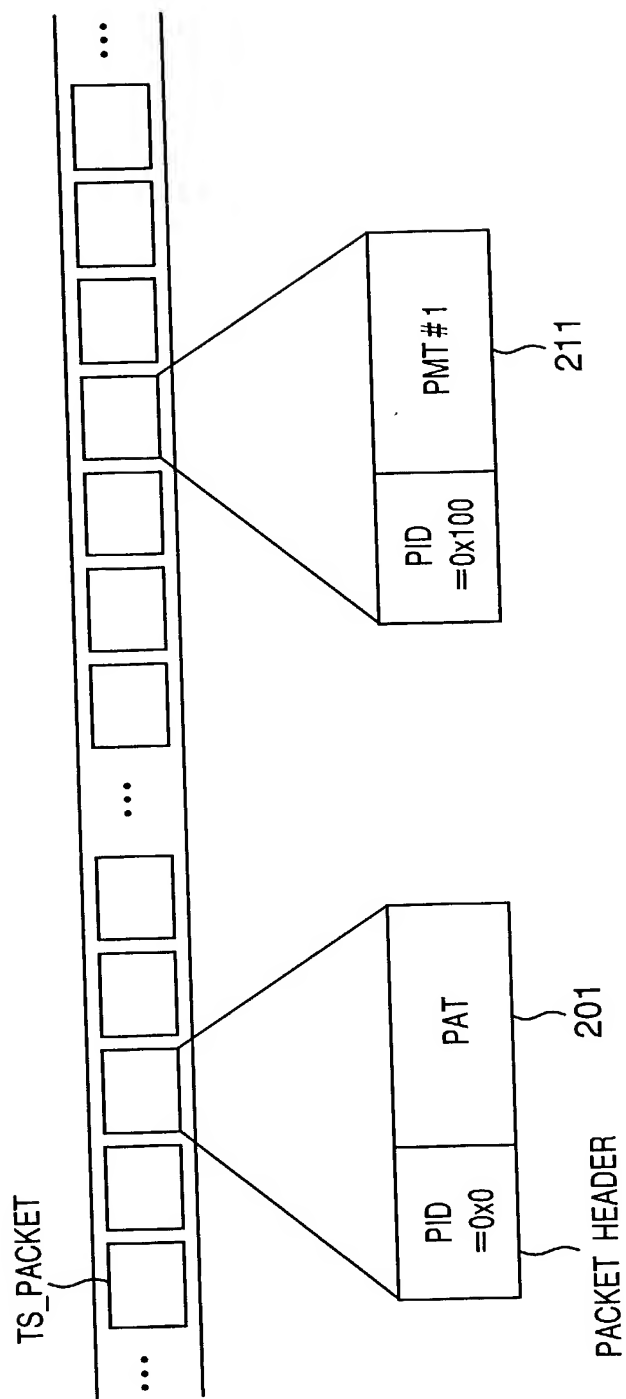


Fig. 11





| ProgramID | PMT_PID |
|-----------|---------|
| #1 | 0x100 |
| ⋮ | ⋮ |

201 PAT

| ES_PID | Stream_type |
|--------|--------------------------|
| 0x101 | ISO / IEC11172 - 2 Video |
| 0x102 | ISO / IEC11172 - 3 Audio |
| : | : |

211 PMT

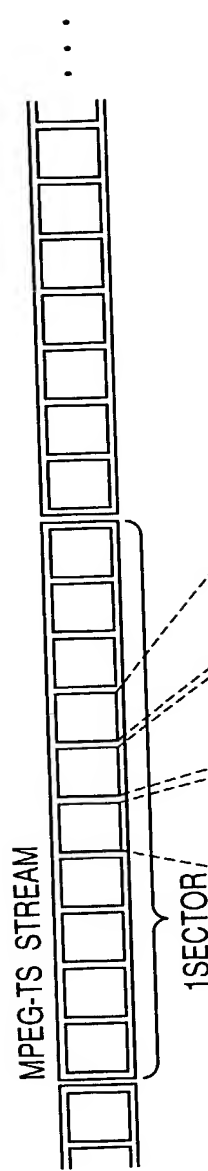


Fig. 16A

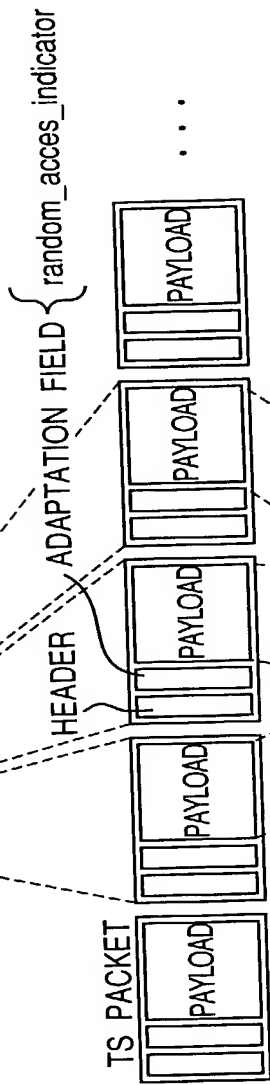


Fig. 16B

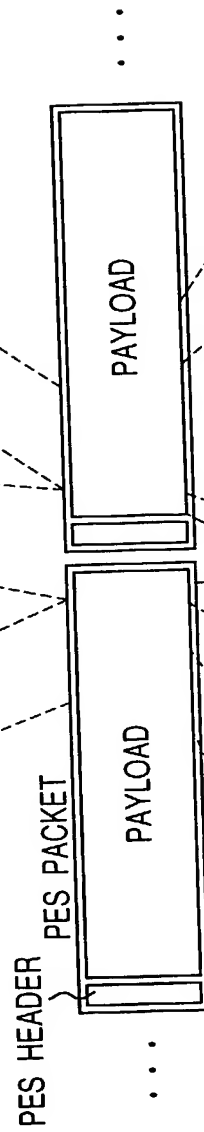


Fig. 16C

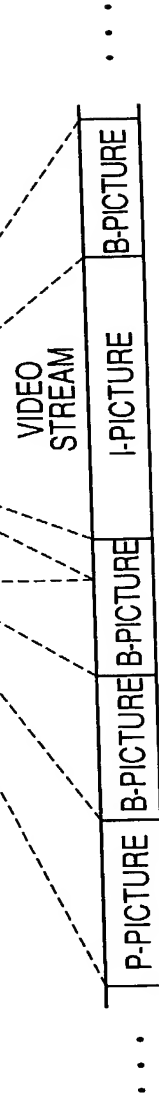


Fig. 16D

Fig.17

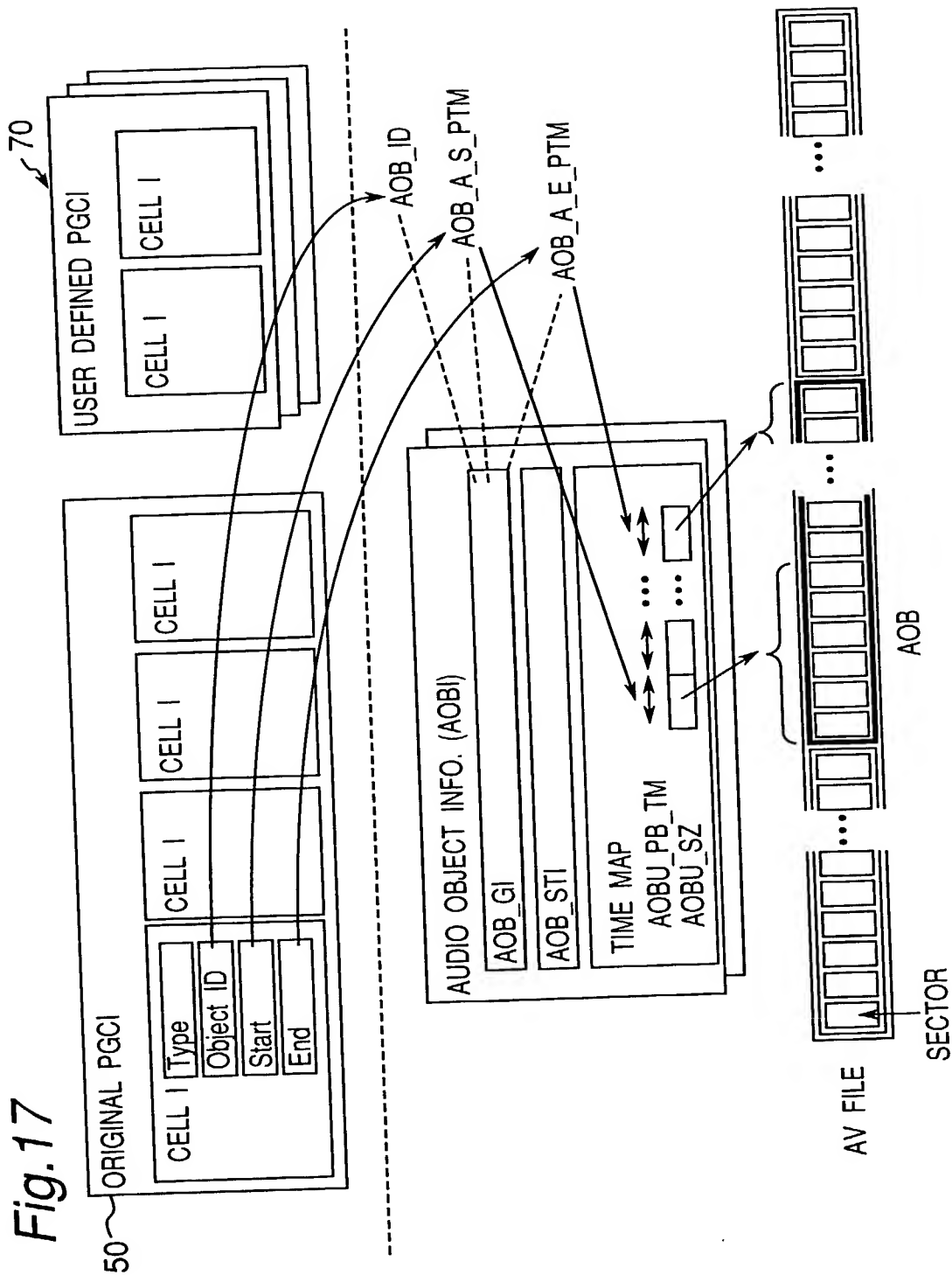


Fig.18

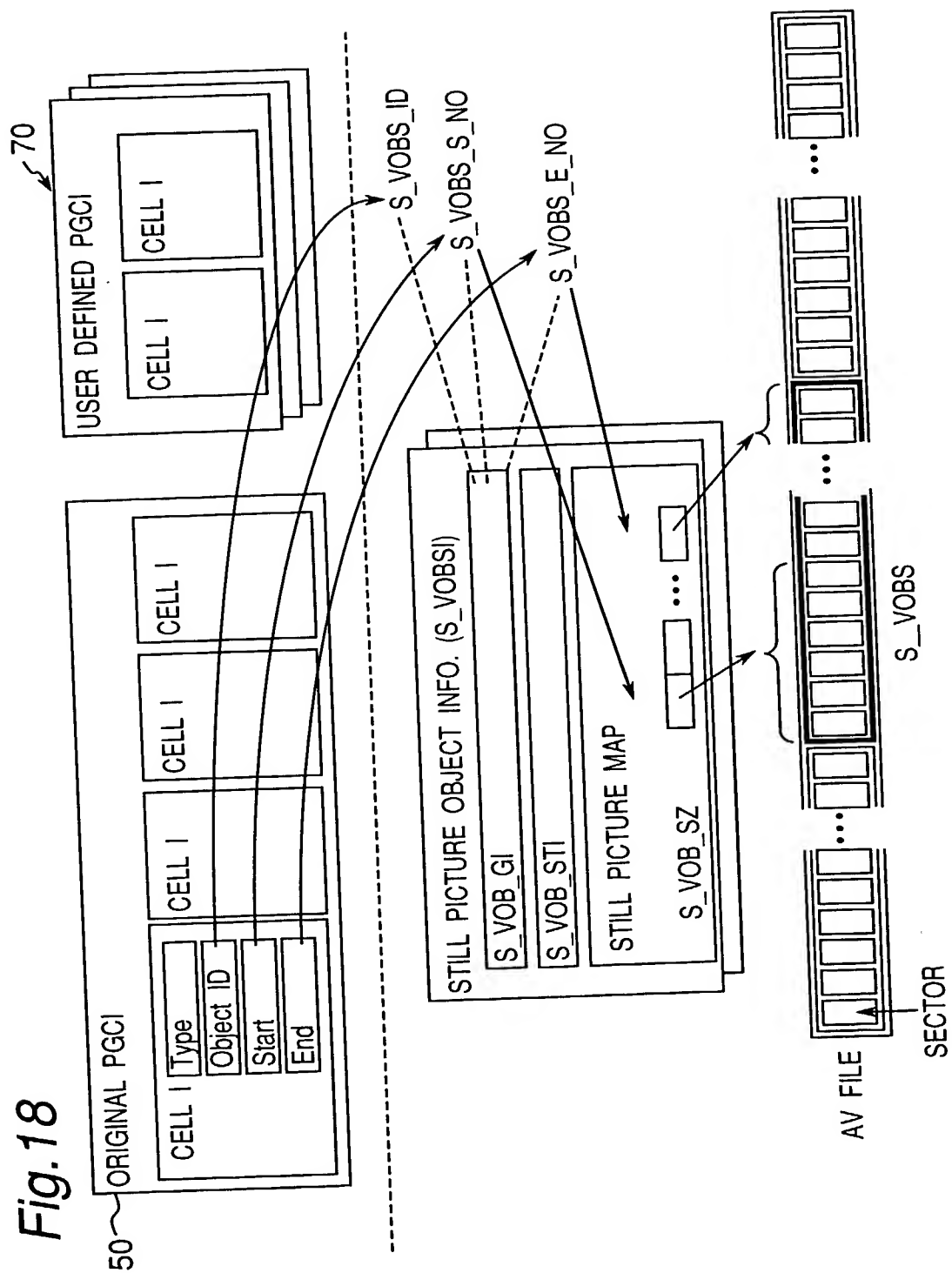
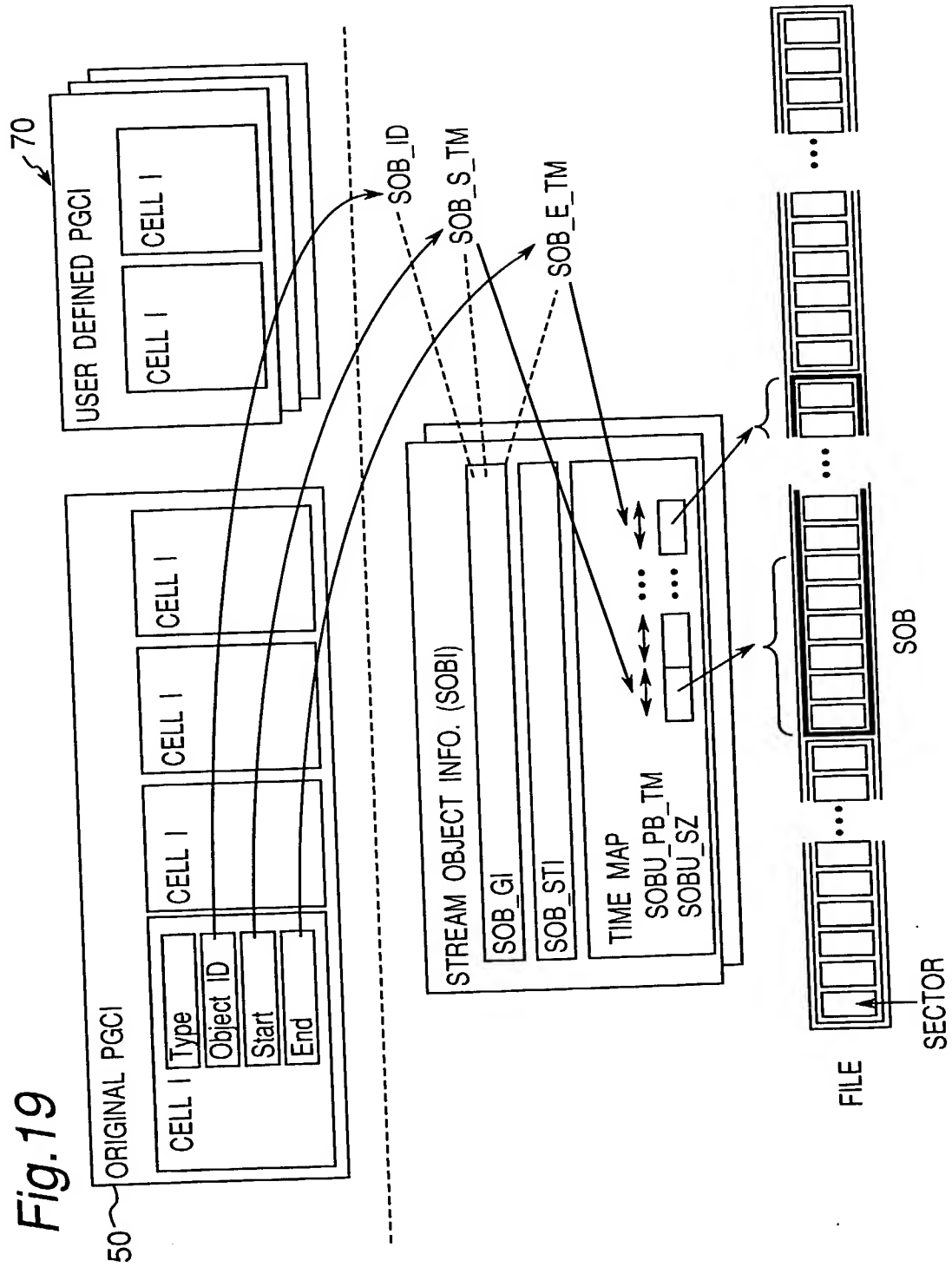
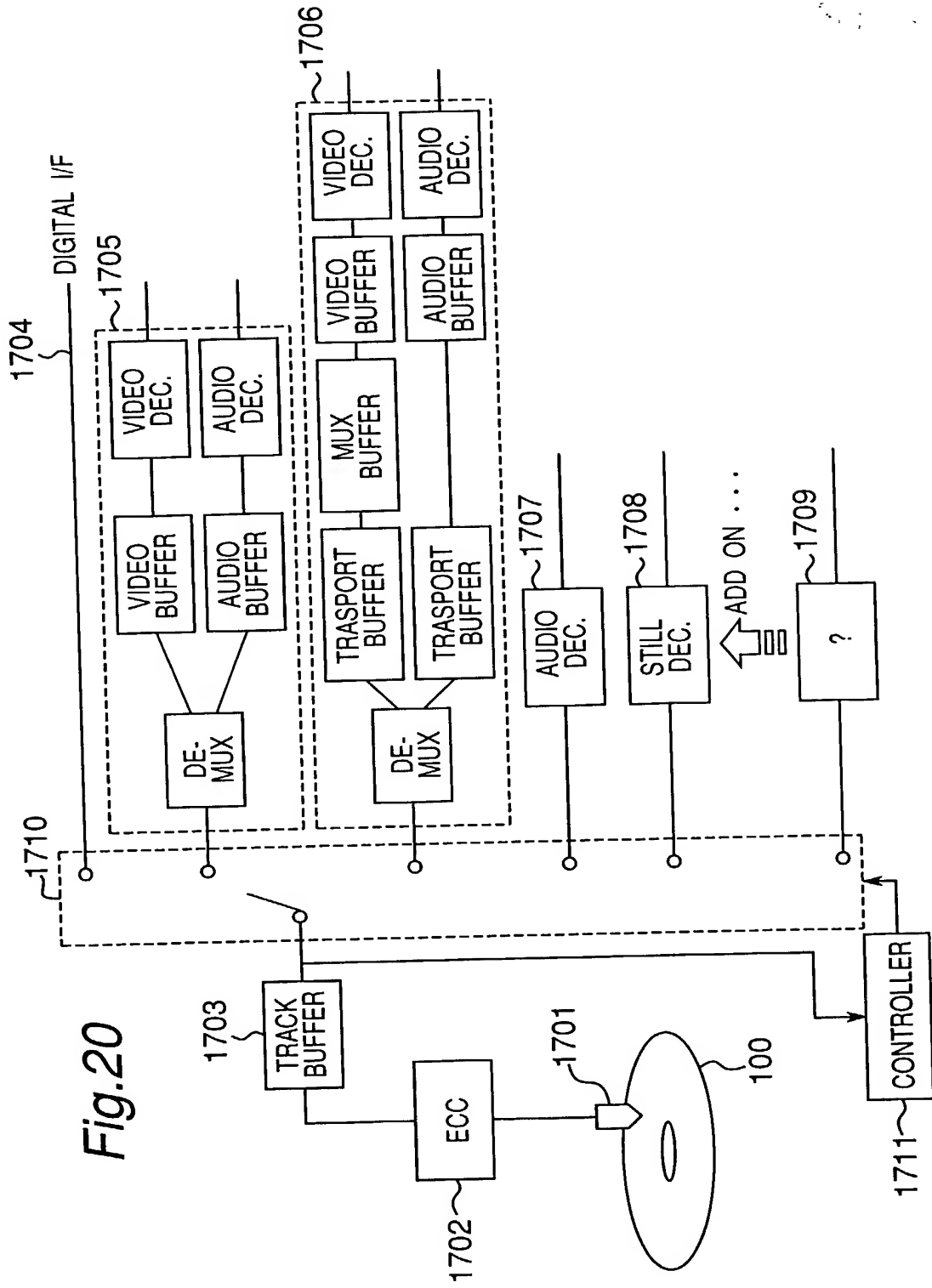


Fig. 19



11 03 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Fig.20



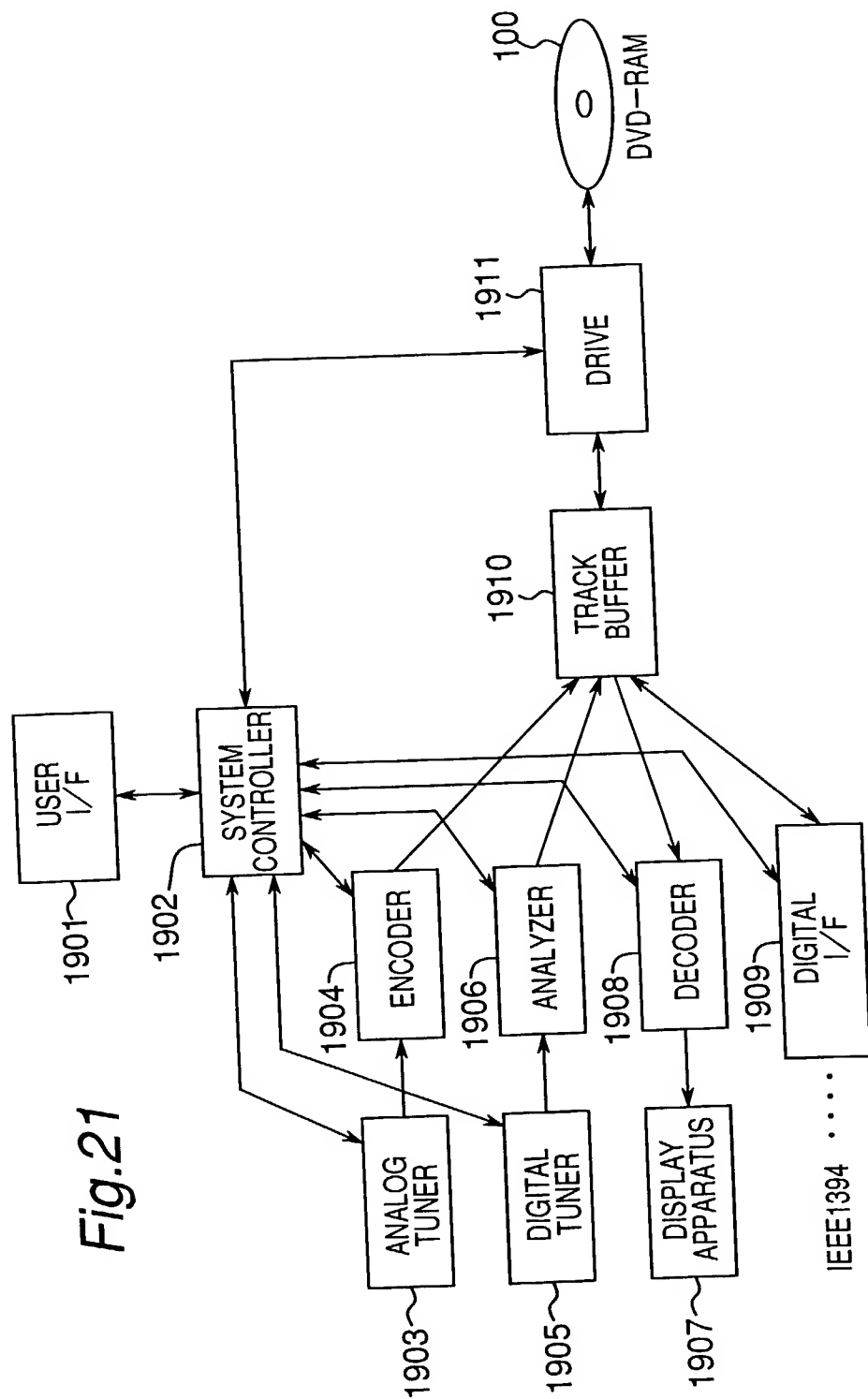
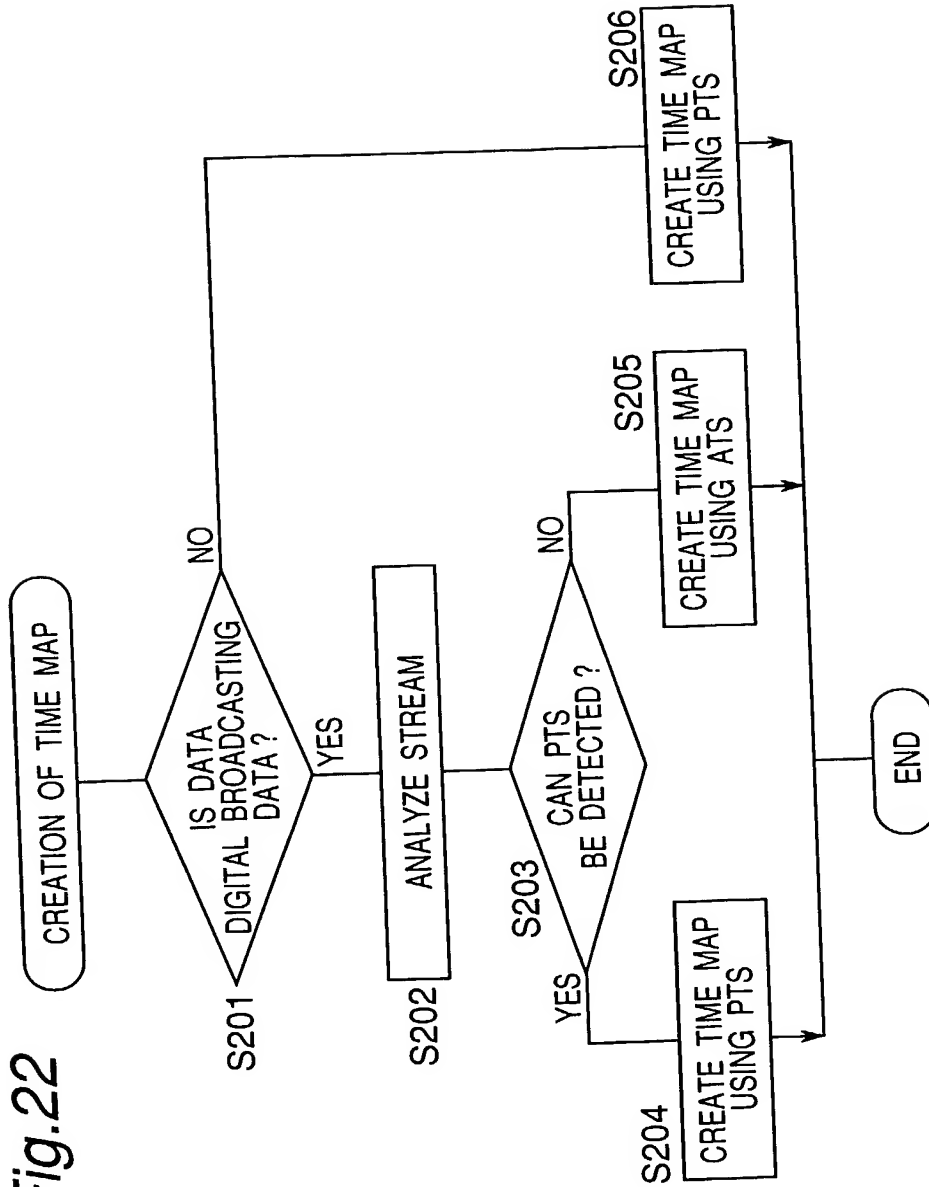
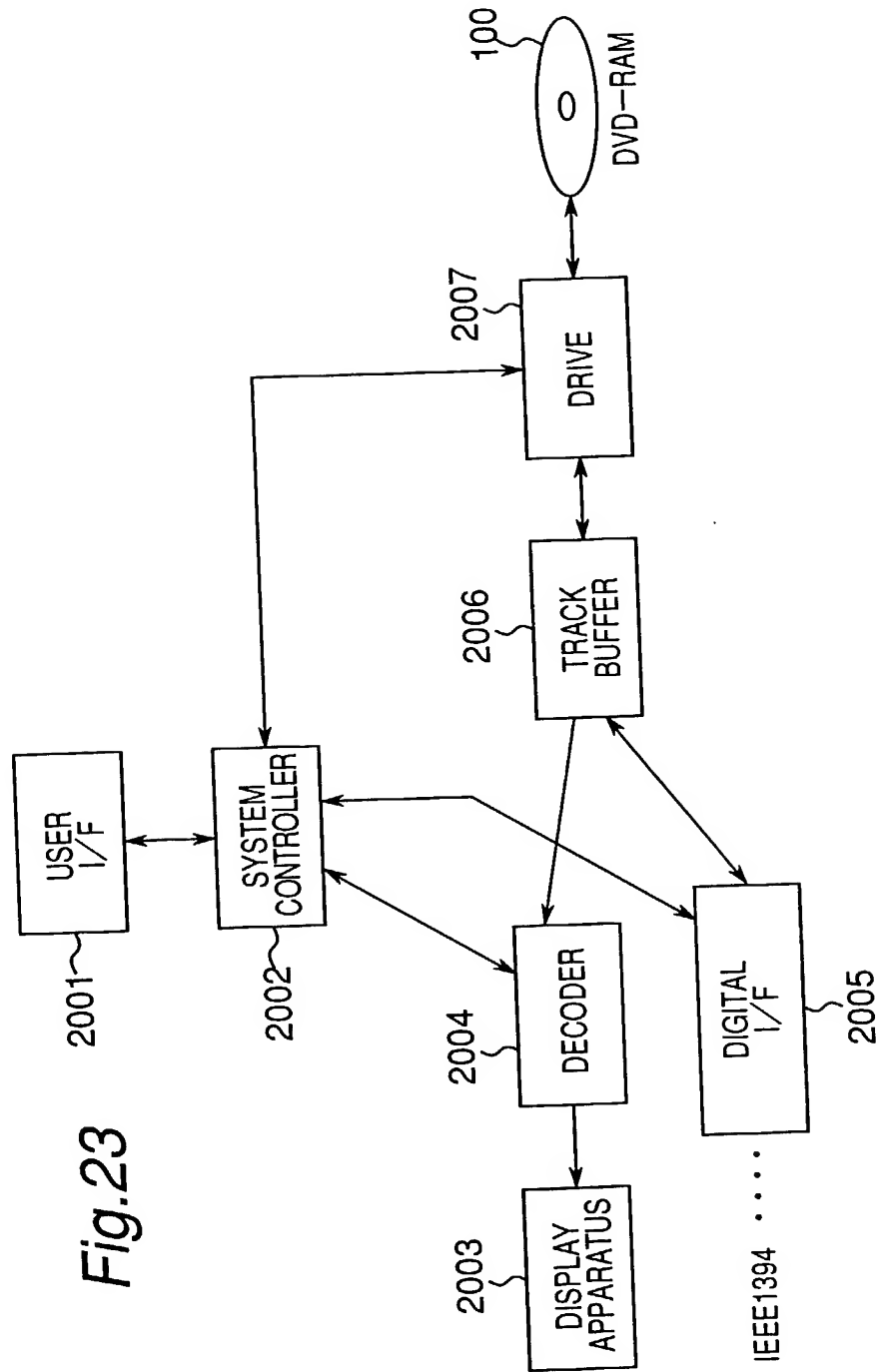


Fig.21

Fig. 22





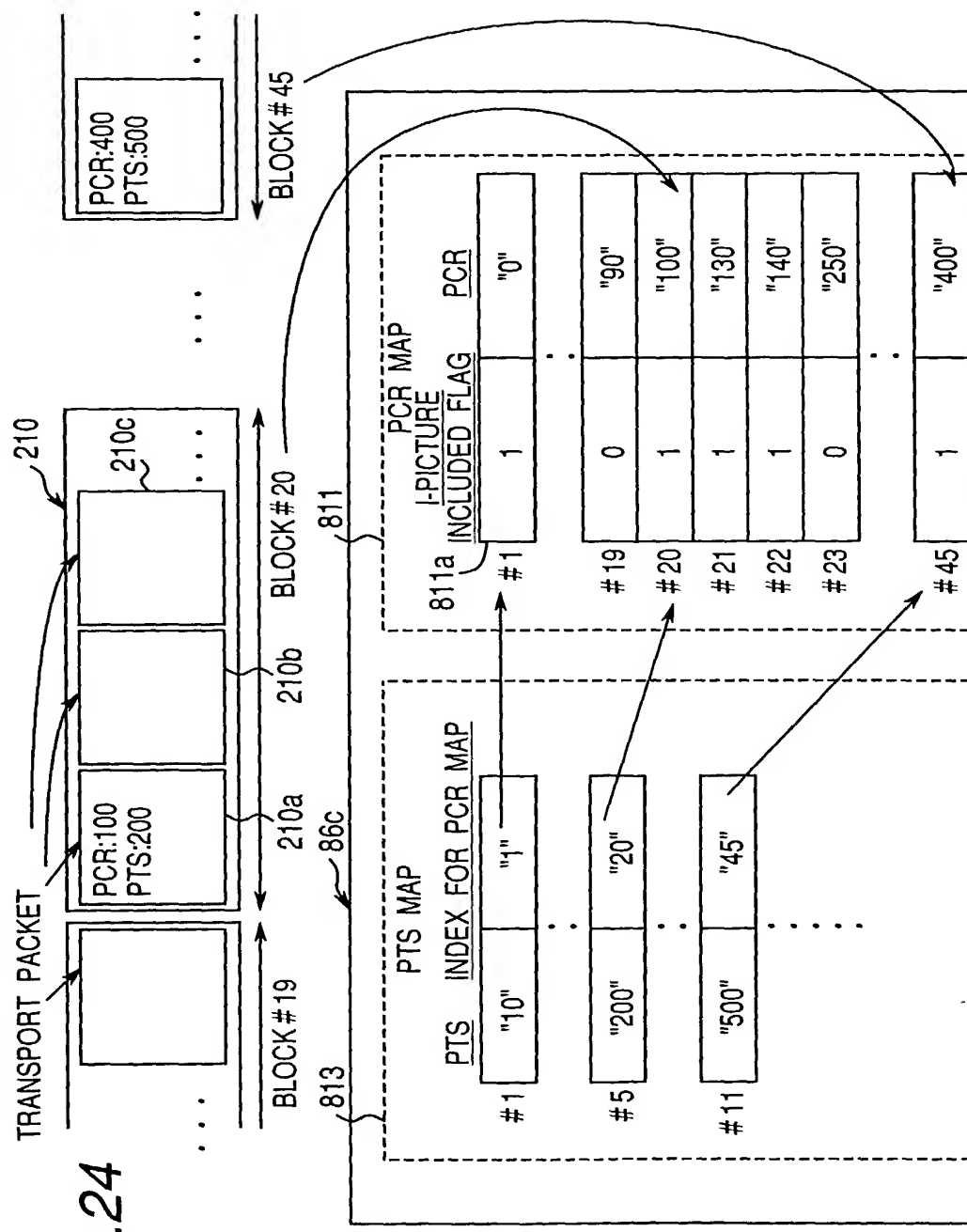


Fig. 24

Fig.26

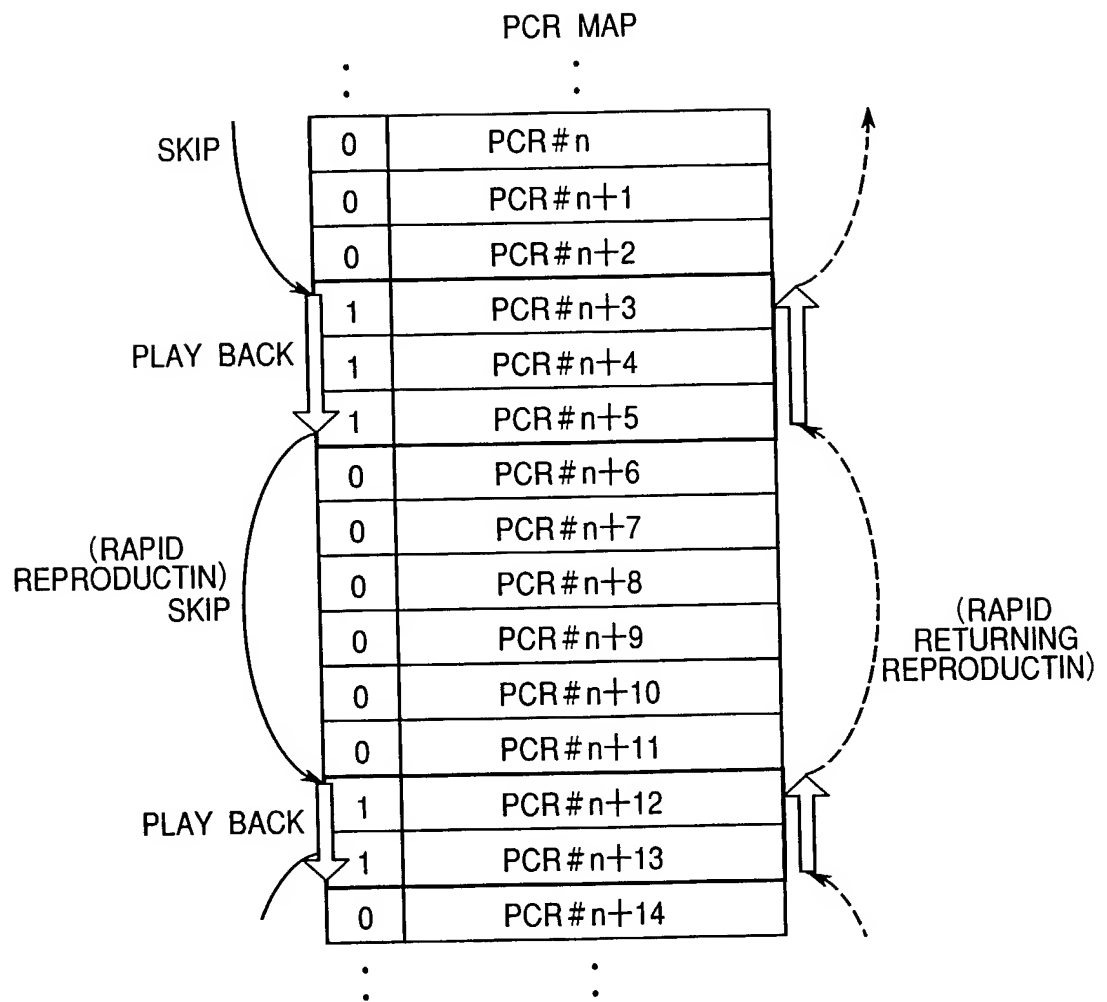


Fig.28

GENERAL INFORMATION OF DIGITAL BROADCASTING OBJECT

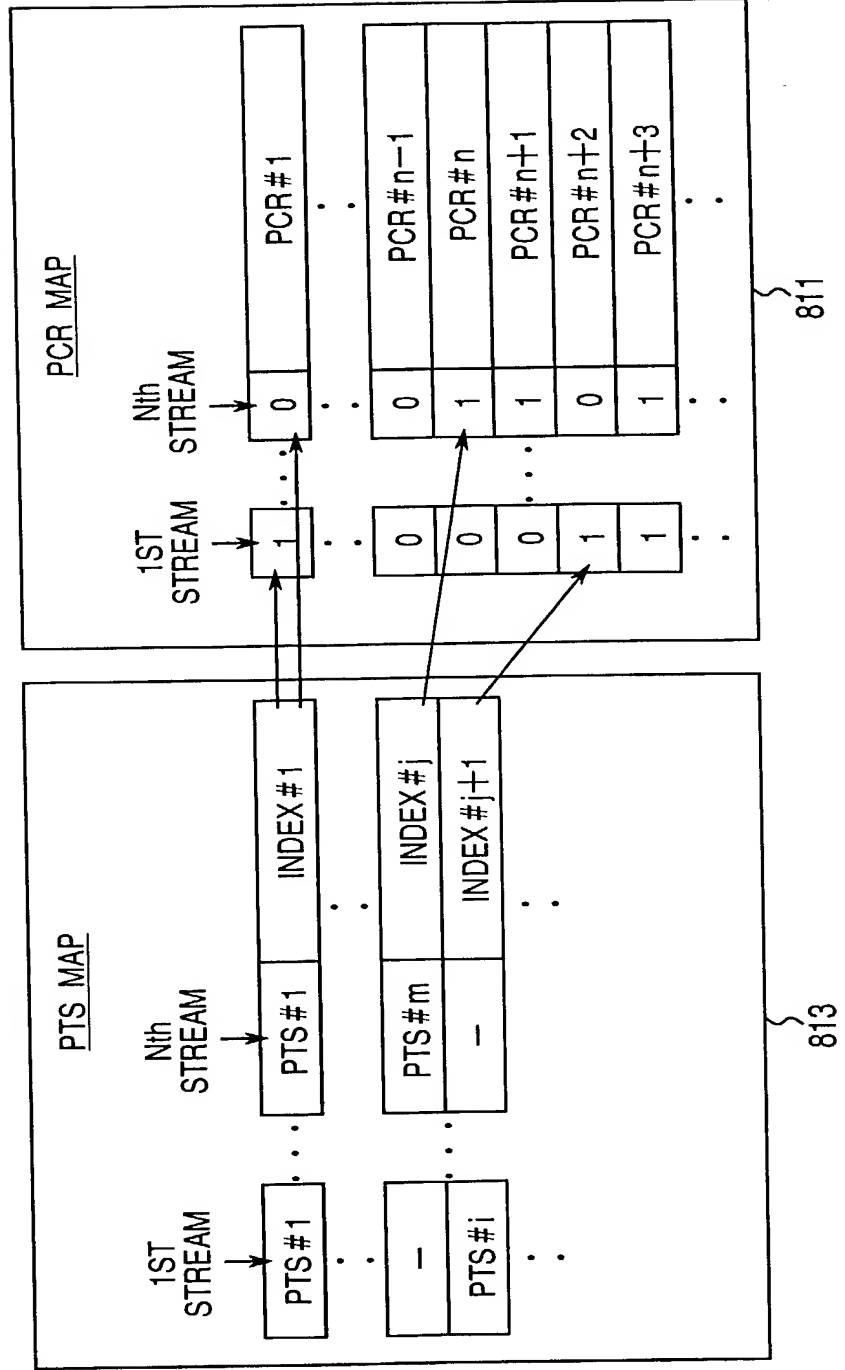
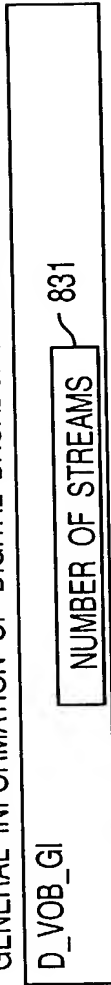


Fig.29

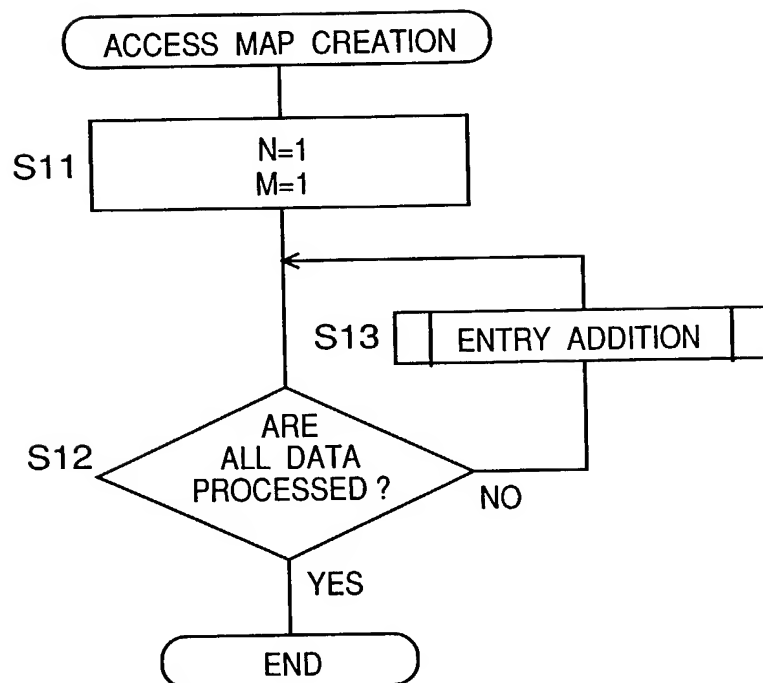


Fig.30

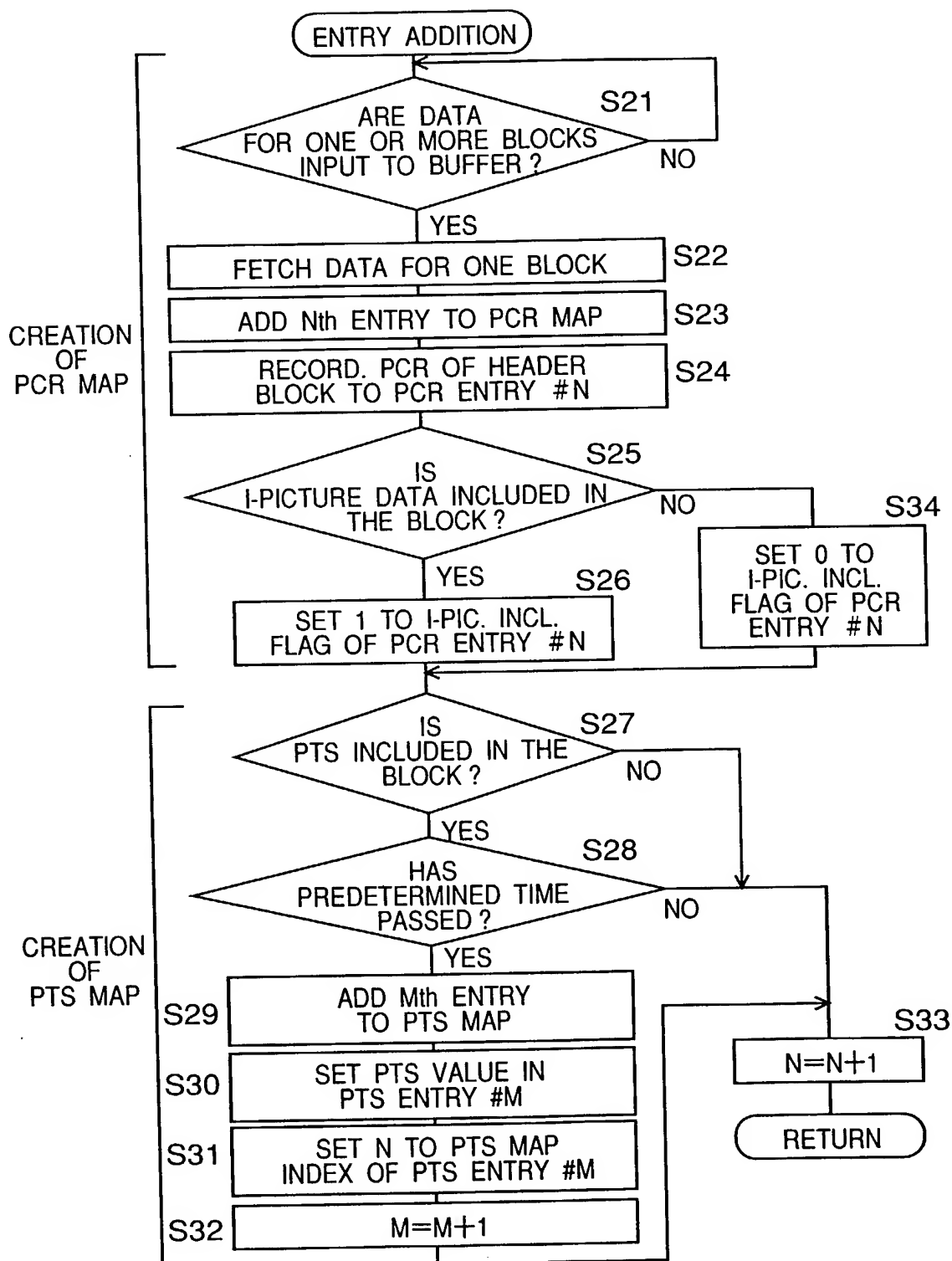
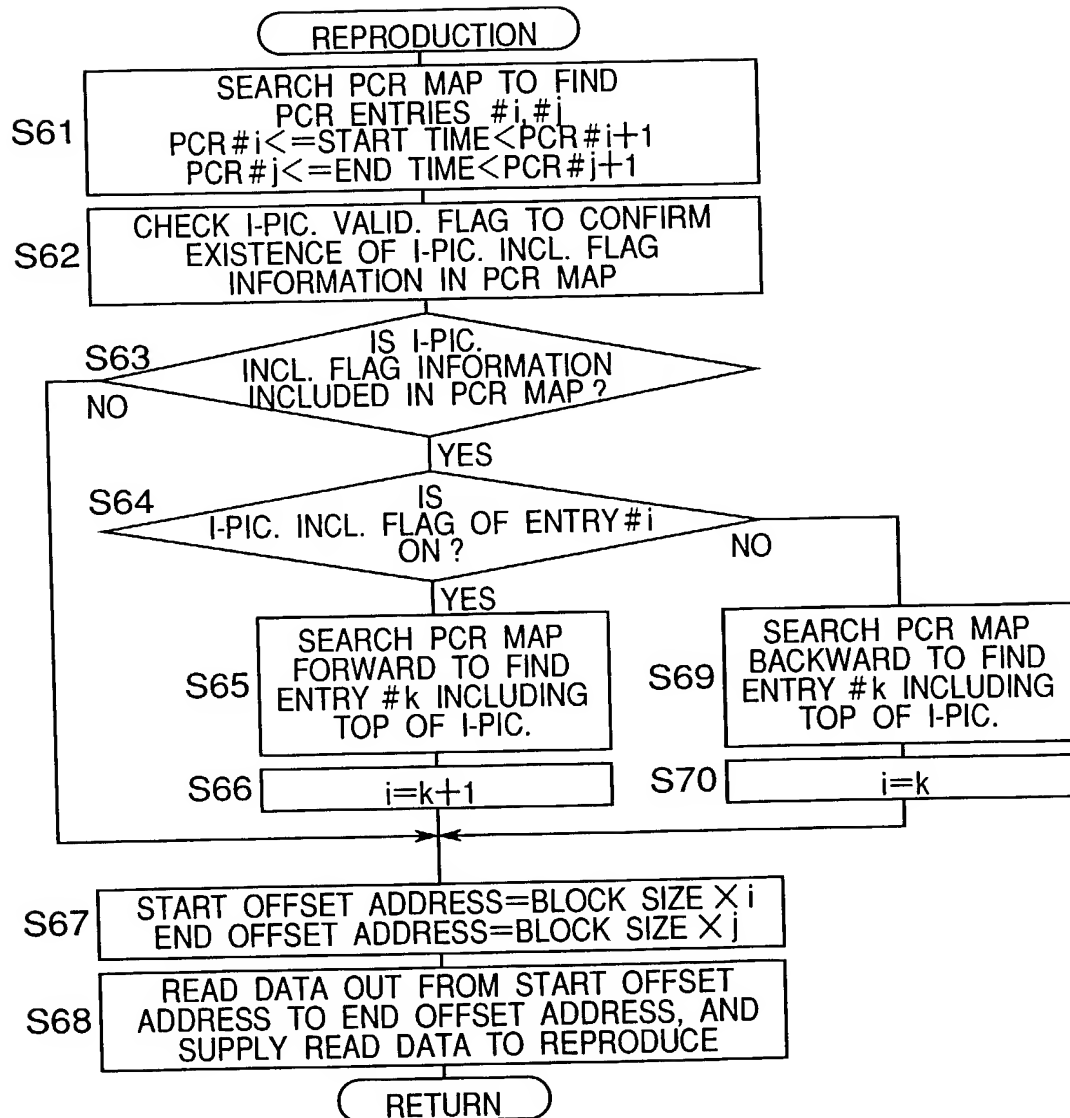
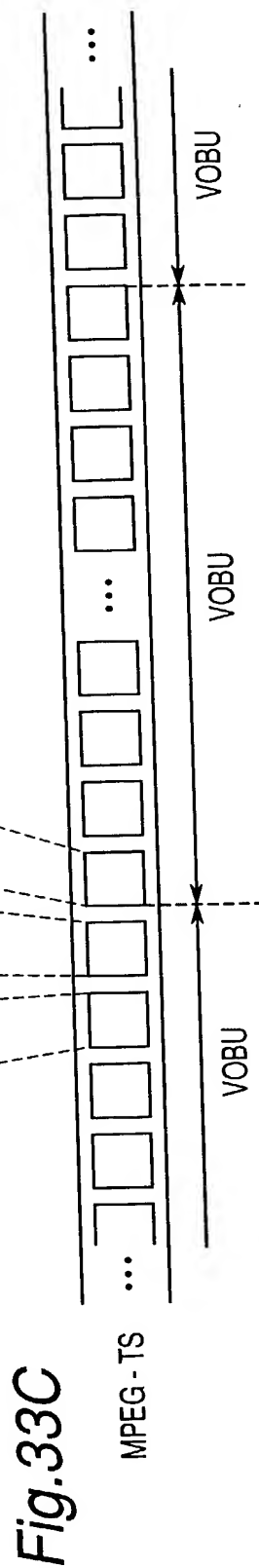
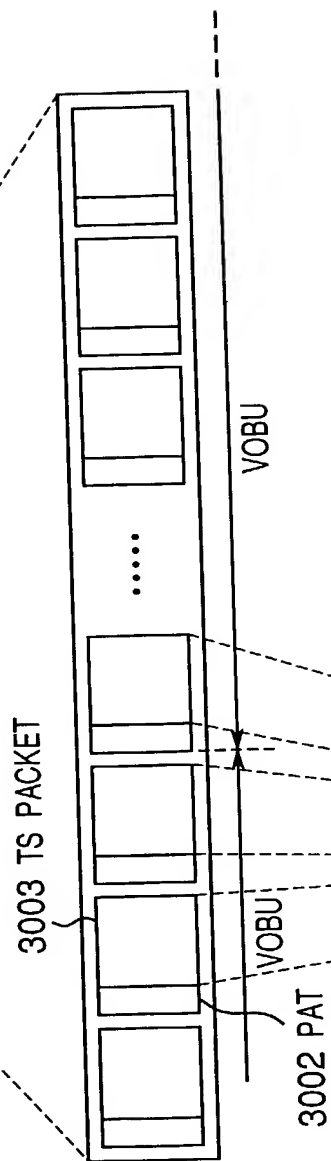
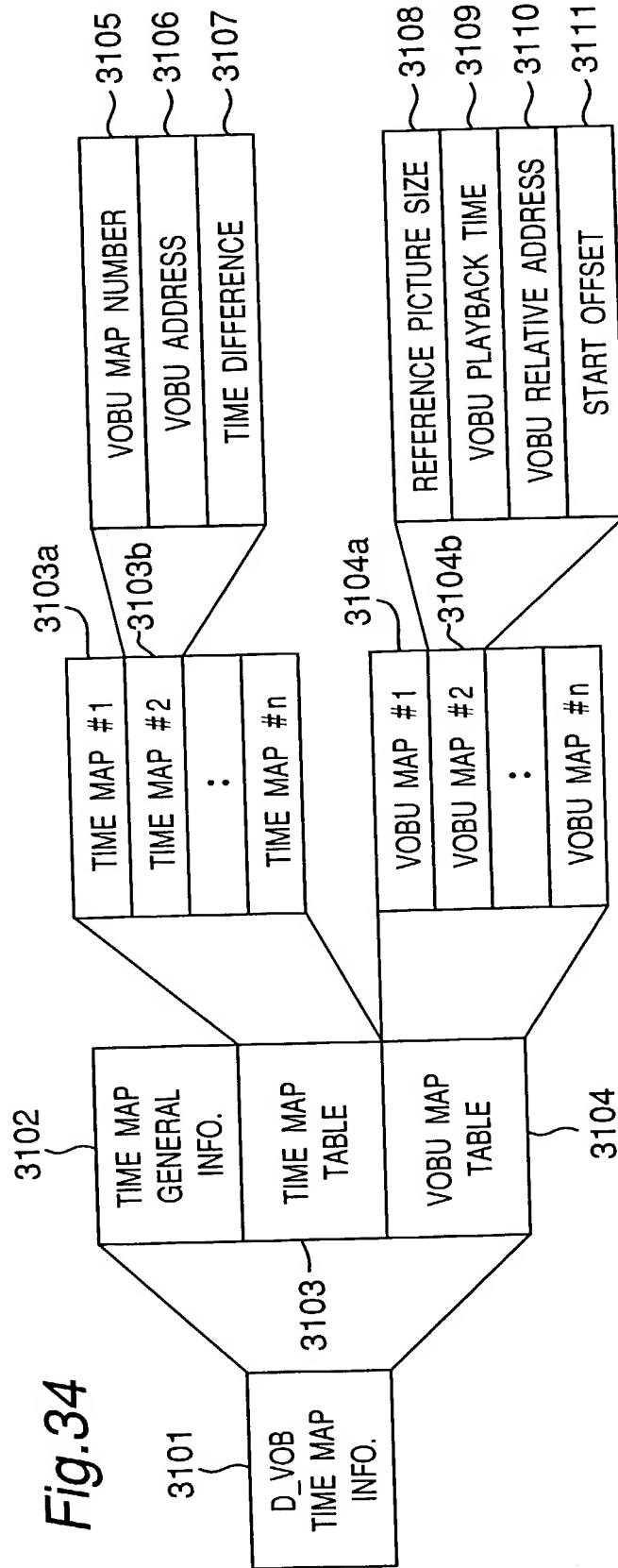


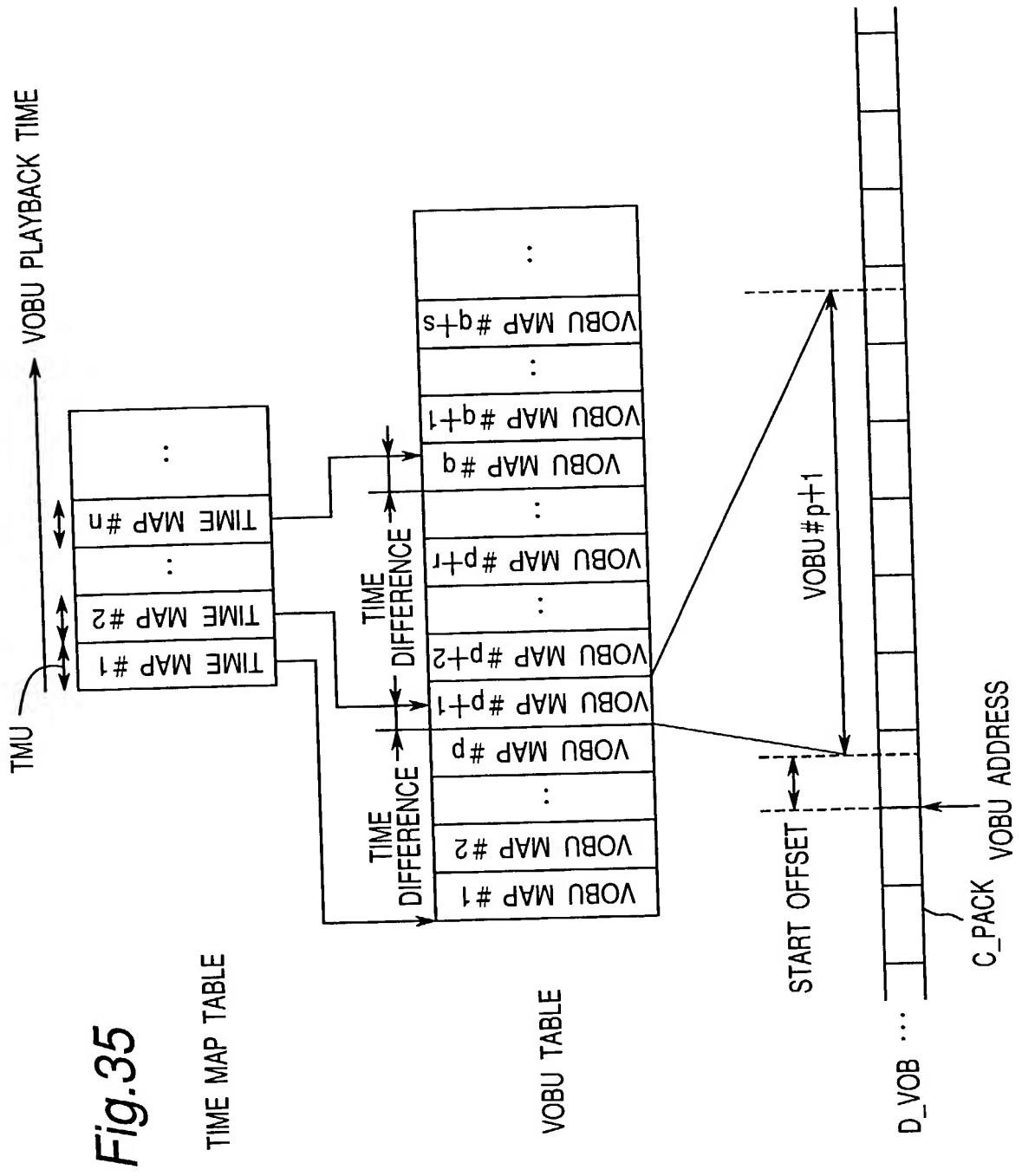


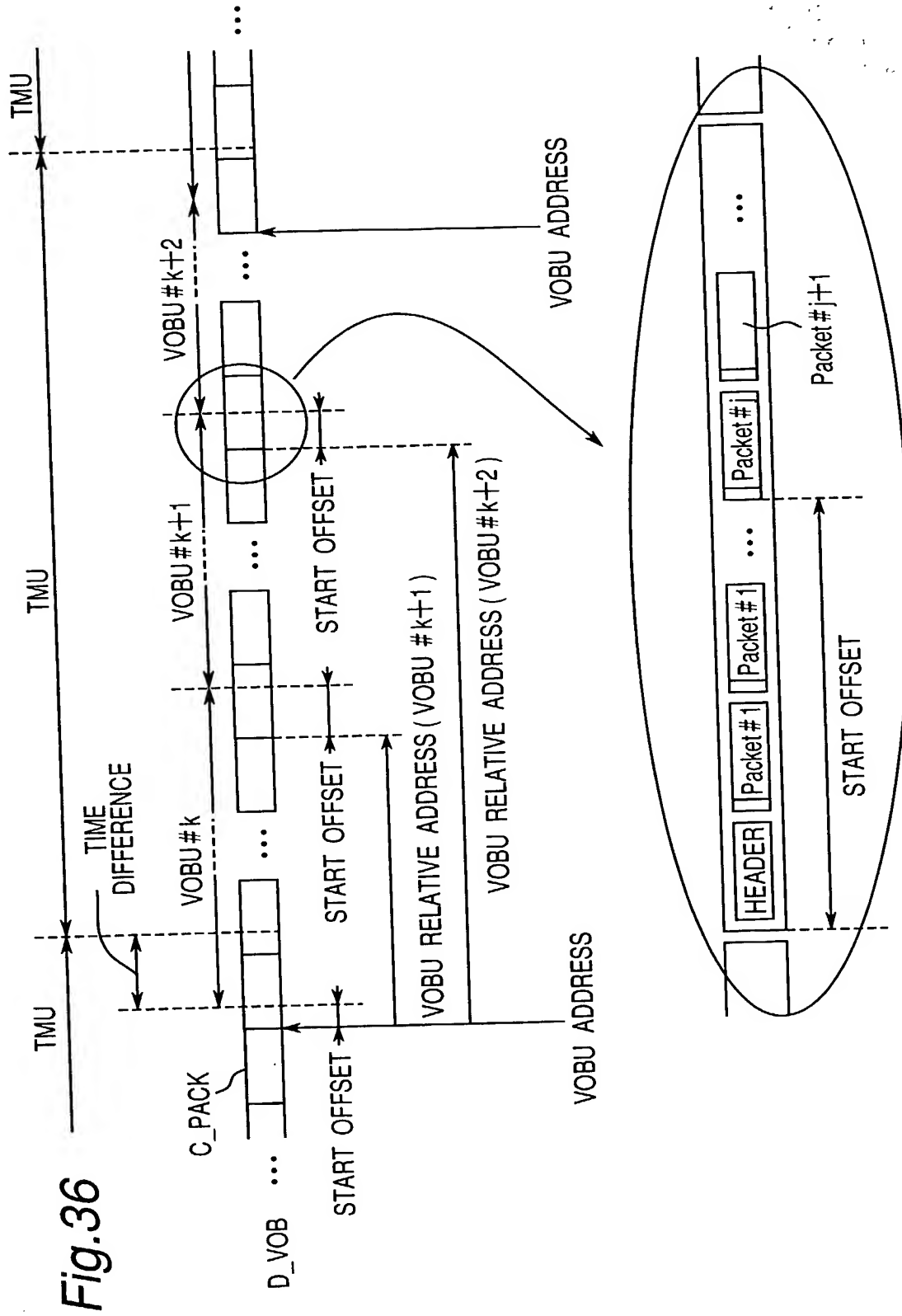
Fig.32











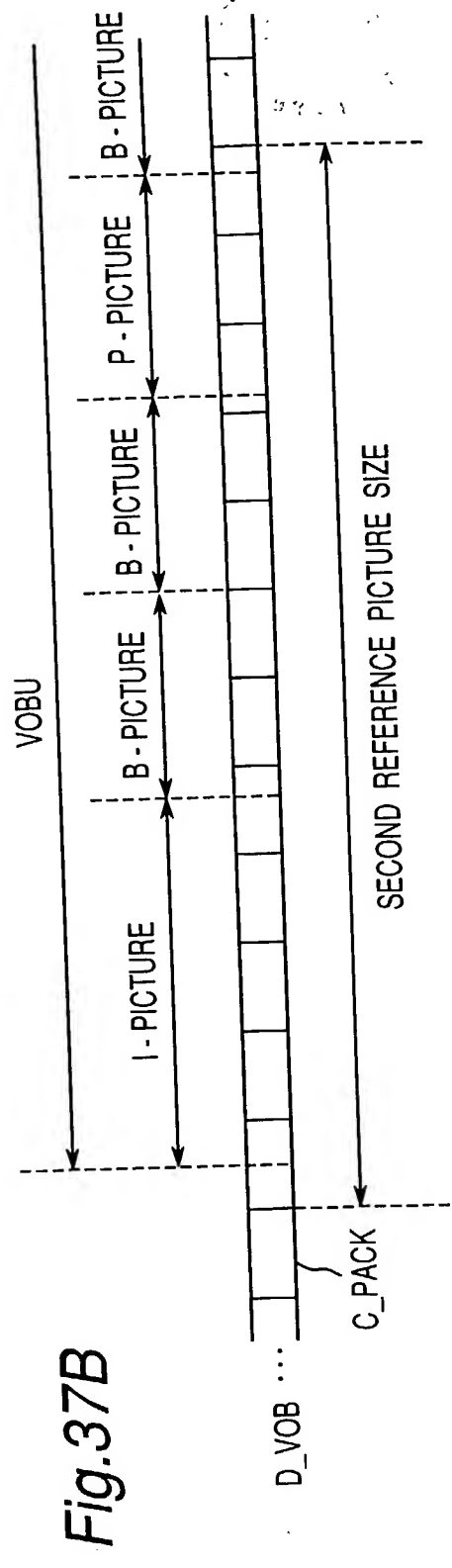
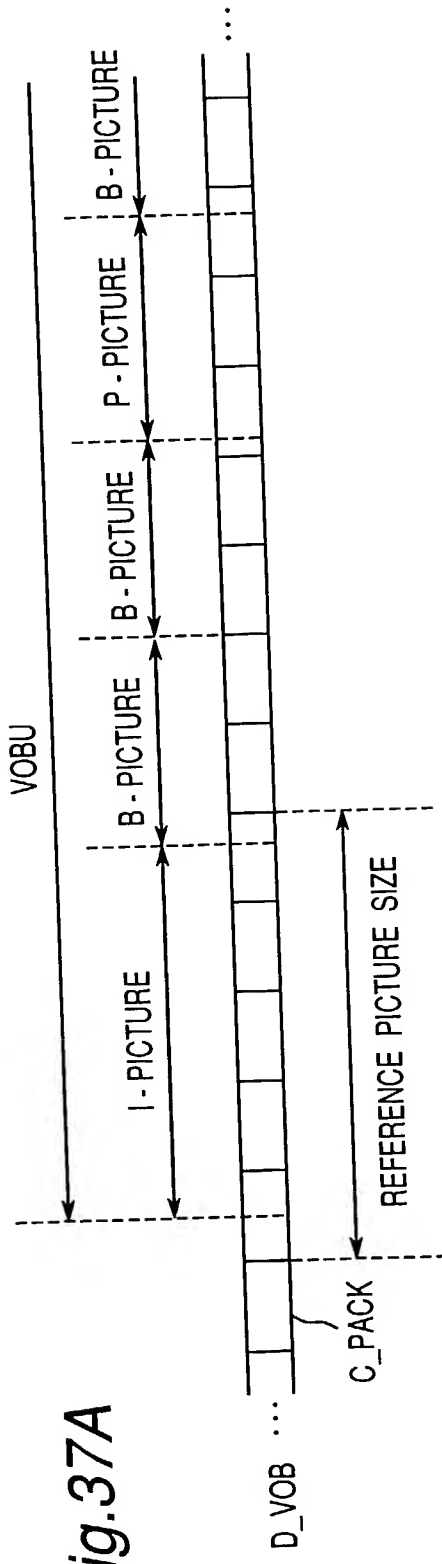


Fig.38

The diagram illustrates the structure of the D_VOB TIME MAP INFO. (3101). It is composed of several interconnected blocks:

- TIME MAP GENERAL INFO.** (3102): This block is further divided into:
 - TIME MAP #1** (3103a)
 - TIME MAP #2** (3103b)
 - A block containing a colon (**:**)
 - TIME MAP #n**
- TIME MAP TABLE** (3103): This block is further divided into:
 - VOBU MAP #1** (3104a)
 - VOBU MAP #2** (3104b)
 - A block containing a colon (**:**)
 - VOBU MAP #n**
- VOBU MAP TABLE** (3104): This block is further divided into:
 - REFERENCE PICTURE SIZE** (3108')
 - VOBU PLAYBACK TIME** (3109)
 - VOBU SIZE** (3501)
 - START OFFSET** (3111)

Labels 3105, 3106, and 3107 are positioned to the right of the diagram, corresponding to the VOBU MAP NUMBER, VOBU ADDRESS, and TIME DIFFERENCE fields respectively, which are not explicitly shown in the diagram's boxes.

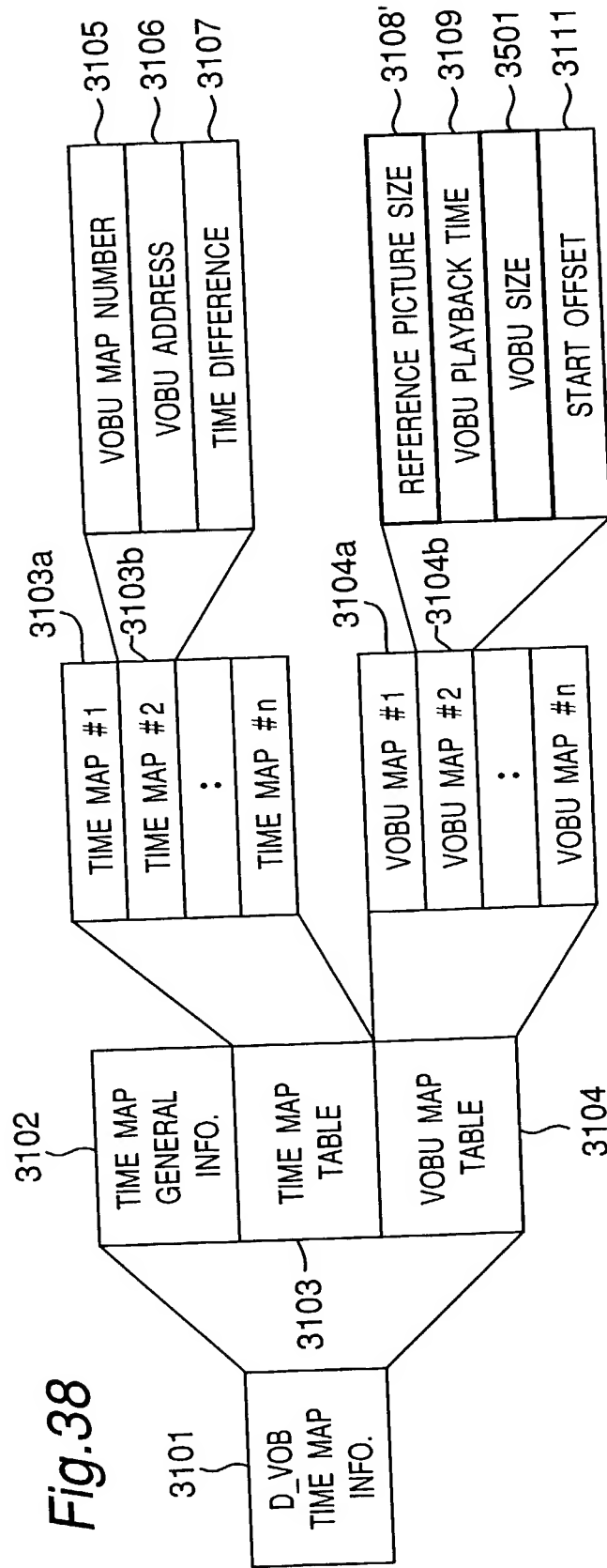
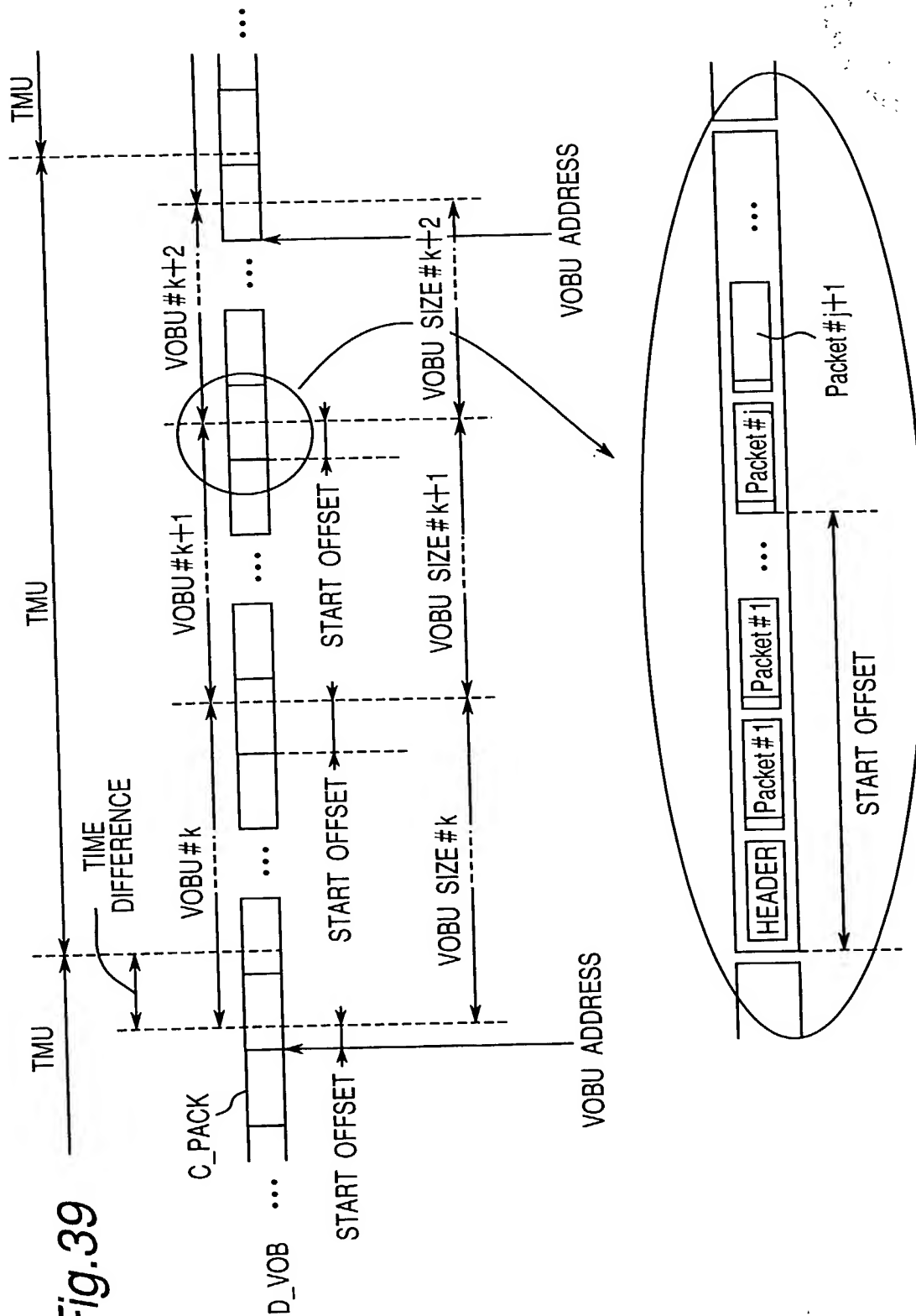
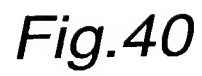
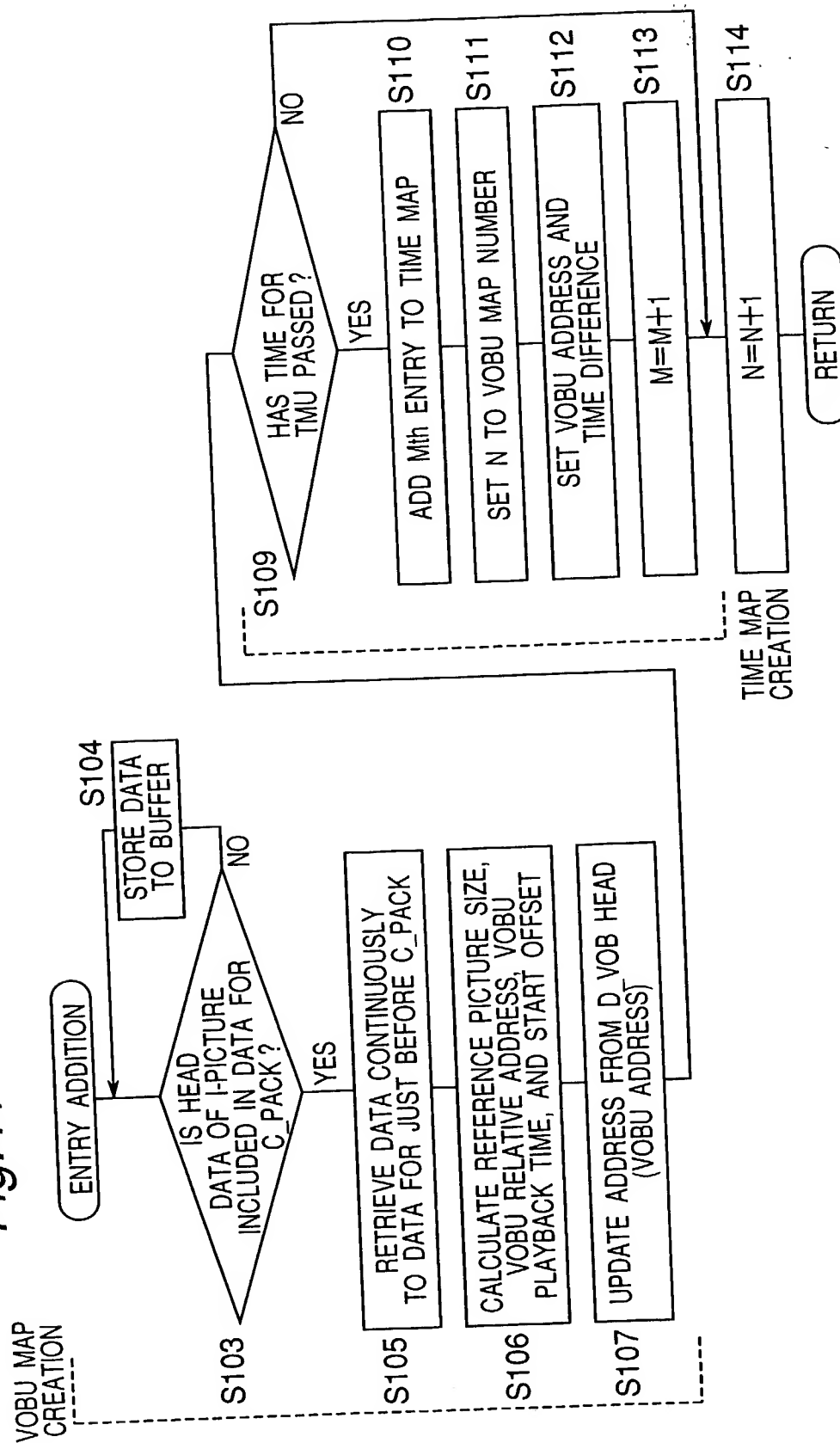


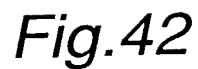
Fig.39





ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED





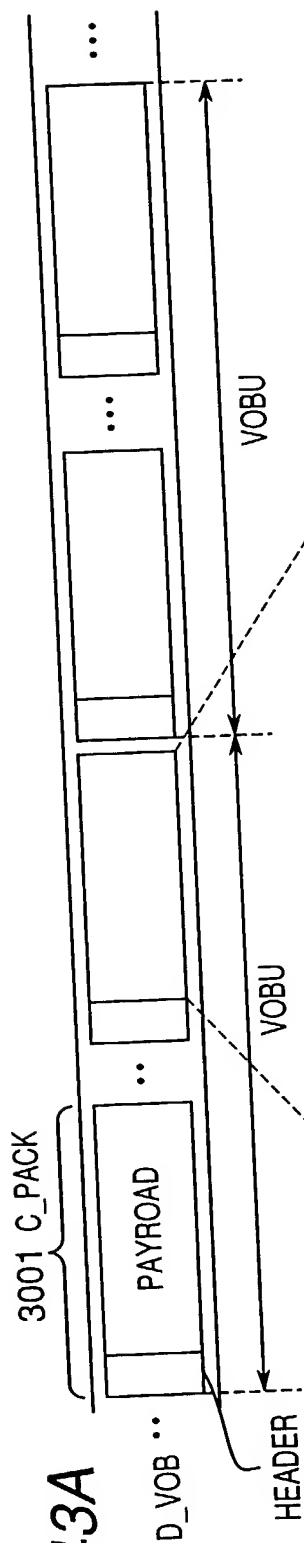


Fig. 43A

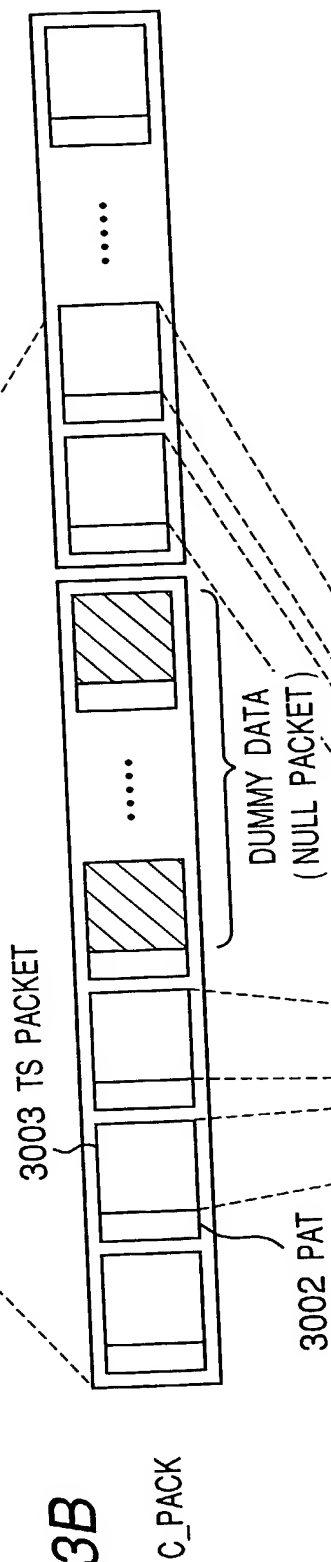


Fig. 43B

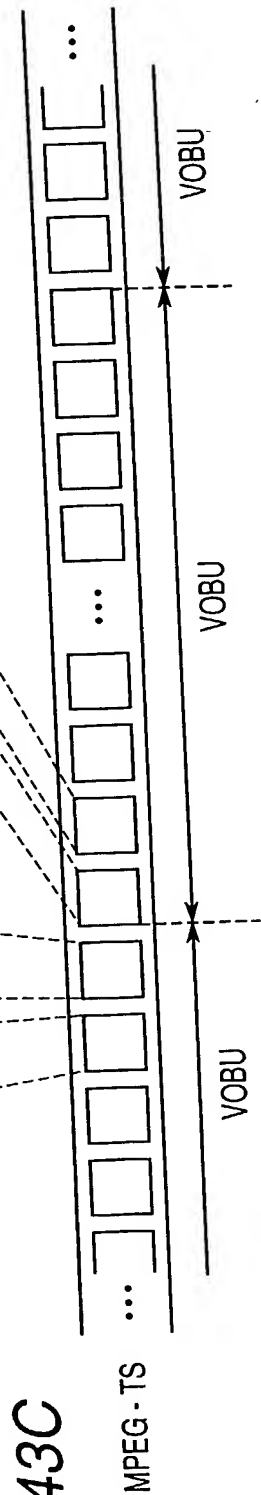


Fig. 43C

Fig. 44A

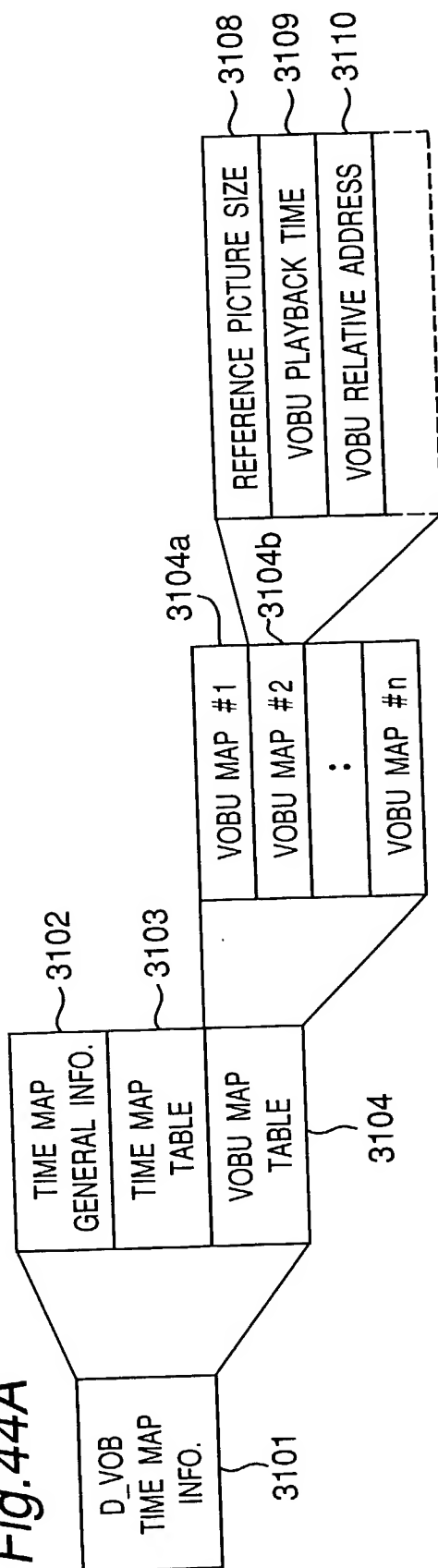


Fig. 44B

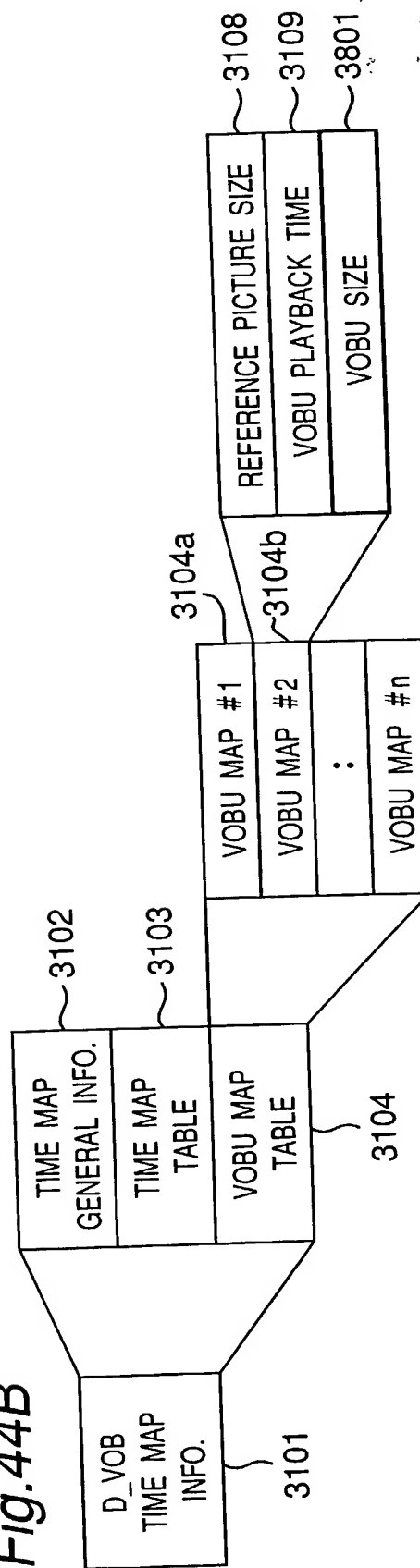


Fig. 45A

Fig. 45B

Fig. 45C

Fig. 46

4001

SOB TIME MAP INFO.

4002

TIME MAP GENERAL INFO.

4003

TIME MAP TABLE

4004

SOBU MAP TABLE

4003a

TIME MAP #1

TIME MAP #2

:

TIME MAP #n

4003b

SOBU MAP #1

SOBU MAP #2

:

SOBU MAP #n

4004a

SOBU MAP NUMBER

SOBU ADDRESS

TIME DIFFERENCE

4004b

SOBU PLAYBACK TIME

SOBU RELATIVE ADDRESS

START OFFSET

4005

4006

4007

4009

4010

4011

